# SR 26 over Salamonie River, Bridge No. 026-38-03430A (NBI 7040) Project

HISTORIC PROPERTY REPORT

Portland, Wayne Township, Jay County, Indiana Des. No. 1600828

November 2020



Prepared for: USI Consultants, Inc. 8415 E 56th Street Indianapolis, IN 46216

By:

Karen Wood **Environmental and Cultural Resource Manager** SJCA, Inc. (Green 3, LLC) Historic Fountain Square 1104 Prospect Street Indianapolis, IN 46203



for MW2d

#### **Management Summary**

This report documents the identification and evaluation efforts for properties included in the Area of Potential Effects (APE) for the SR 26 over Salamonie River, Bridge No. 026-38-03430A (NBI 7040) Project, in Portland, Wayne Township, Jay County, Indiana (Des. No. 1600828). Above-ground resources located within the project APE were identified and evaluated in accordance with Section 106, National Historic Preservation Act (NHPA) of 1966, as amended, and the regulations implementing Section 106 (36 CFR Part 800).

As a result of the NHPA, as amended, and CFR Part 800, federal agencies are required to take into account the impact of federal undertakings upon historic properties in the area of the undertaking. Historic properties include buildings, structures, sites, objects, and/or districts that are eligible for or listed in the National Register of Historic Places (National Register). As this project is receiving funding from the Federal Highway Administration (FHWA), it is subject to a Section 106 review.

The APE contains one property listed or previously determined eligible for inclusion in the NRHP: Bridge No. 026-38-03430A (NBI 7040).

The APE contains no other properties that are recommended eligible for listing in the NRHP.



A Phase Ia Archaeological Literature Review and Reconnaissance Survey for the Proposed Rehabilitation of the State Road 26 Bridge over the Salamonie River (Des 1600828) in the City of Portland, Wayne Township, Jay County, Indiana

January 6, 2021

Prepared for: USI Consultants 8415 East 56<sup>th</sup> Street Indianapolis, Indiana 46216



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#### INTERPRETATIONS OF THE FINDINGS INTO A REGIONAL CONTEXT

One archaeological site (12-Ja-700) was documented by this investigation. The site was a prehistoric isolated find located on a bluff overlooking the Salamonie River. Because the artifact was non-diagnostic, the cultural/temporal association of the site could not be determined. Since the site is an isolated find, it can be inferred that the site was a small camp that would have been inhabited for a brief period.

This interpretation of the site would fit with the archaeological record that is expressed in Table 1. Those sites with a prehistoric component were comprised of small lithic scatters or isolated finds in which the occupation would have been brief. These sites probably represent small hunting camps, and/or sites in which the main activity was gathering seasonal floral resources.

#### SUMMARY AND CONCLUSIONS

In June 2019, USI Consultants contracted SJCA, Inc. (formerly Green 3, LLC), to conduct a Phase la archaeological records review and reconnaissance survey for the proposed rehabilitation of the SR 26 bridge over the Salamonie River (Des 1600828) in Jay County. The proposed project, which is located just east of the City of Portland, is in the northeastern quarter of the southwestern quarter of the southeastern quarter, as well as the southeastern quarter of the northwestern quarter of the northeastern quarter of Section 21, Township 23 North, Range 14 East, Wayne Township.

The survey area (area examined by this investigation) measured 1,050 feet in length and a maximum width of 145 feet. The survey area encompassed 3.2 acres.

The purpose of this project is to restore the SR 26 bridge that crosses over the Salamonie River to a satisfactory condition and increase the safe carrying capacity from the current 28 tons to 36 tons. The need for the project is that the existing bridge does not meet current INDOT design criteria for capacity or shoulder width. Right-of-way will be acquired for this project.

The records review indicated that the SR 26 right-of-way section of the survey area was examined in 2008 as part of the SR 26 Pavement Replacement project that was conducted by the Cultural Resources Section of INDOT. The study determined that the right-of-way was disturbed (Greenlee 2008). In 2020, a geophysical investigation was undertaken by INDOT CRO of an unnamed cemetery that is just north of the Northwestern Quarter of the survey area. Data obtained from the INDOT CRO investigation determined that it is highly likely that graves are present in the cemetery. It was recommended that the proposed project should avoid the cemetery (Coon 2020).

No archaeological sites have been recorded in the survey area, or immediately

adjacent to it. A historic property survey of the project area determined that the bridge was eligible for listing on the NRHP (Wood 2020).

The field investigation documented one site (12-Ja-700), which was a prehistoric isolated find that was on a bluff in the Southwestern Quarter. Based on the data obtained from the field investigation, it is recommended that the site is not eligible for listing on the NRHP under Criterion D.

No further archaeological work should be undertaken on site 12-Ja-700.

# SR 26 over the Salamonie River



Location:	County	Road	Over	Number	Other Location Information
	Jay	SR 26	Salamonie River		0.78 miles east of US 27 junction at the east edge of the City of Portland

	Owner	Length	Width	Year Built	Туре
	INDOT	154.7ft	29ft	1941	Steel Parker Through Truss
	Builder:	Yost Brothers		Status:	Pending
Statistics:	Comments:	Current Load Rating: H-Inventory 16 to replacement of the deck, mudwalls, or joints. Bridge was cleaned and painted The bridge is eligible for listing in the Programmatic Agreement Regarding bridge is currently "pending," which row is on-going. Depending on the outcor INDOT is now accepting proposals for Proposals will also be accepted for the bridges.	diaphragms, approaced. Abutments were National Register of Management and Pereans that its future of Section 106 corthe rehabilitation a	ch slabs, bridge railing, appirepointed. This single-span Historic Places, but is not streservation of Indiana's Histis currently unknown as the strested particular reuse, or the storage and reuse, or the storage and	oach guardrail, and expansion steel Parker truss was built in 1941. elect for preservation, per the toric Bridges. The status of the e Section 106 historic review process es may be able to acquire the bridge. d future reuse of the bridge.

Contact	Name ::	E-mail	Address	Phone
	John Handke	j_(mailto:ebiggio@bfsengr.com)handke@usiconsultants.com	8415 E 56th St. Indianapolis, IN 46216	(317) 544-4996

# Marketing Bridge Signs located on Bridge No. 026-38-03430A



Facing east toward marketing sign and bridge



Facing west toward marketing sign and bridge

The Indianapolis Star

130 South Meridian Street Indianapolis, IN 46225 Marion County, Indiana

#### IND DEPT OF TRANSPORTATION

Federal Id: 06-1032273.

Account #:INI-1967 Order #:0004098388 # of Affidavits:

Total Amount of Claim:\$60.56 This is not an invoice

IND DEPT OF TRANSPORTATION ATTN Richard Phillabaum 100 N SENATE AVE RM N 642 INDIANAPOLIS, IN 46204

#### PUBLISHER'S AFFIDAVIT

STATE OF WISCONSIN, **County Of Brown** 

} ss

Personally appeared before me, a notary public in and for said county and state, the undersigned

I, being duly sworn, say that I am a clerk for THE INDIANAPOLIS NEWSPAPERS a DAILY STAR newspaper of general circulation printed and published in the English language in the city of INDIANAPOLIS in state and county of Marion, and that the printed matter attached hereto is a true copy, which was duly published in said paper for 1 times., the dates of publication being as follows:

The insertion being on the

03/09/2020

Newspaper has a website and this public notice was posted in the same day as it was published in the newspaper.

Pursuant to the provisions and penalties of Ch. 155, Acts 1953,

I hereby certify that the foregoing account is just and correct, that the amount claimed is legally due, after allowing all just credits, and that no part of ame has been paid.

Subscribed and sworn to before me this 23 day of March, 2020

Notary Expires: 8-25-23

SHELLY HORA Notary Public State of Wisconsin

Form Prescribed by State Board of Accounts	INDOT Historic Bridge Marketing Website  General Form No. 99P (Rev. 2002)	
(Governmental Unit)	To: <u>INDIANAPOLIS STAR</u>	
County, Indiana	Indianapolis, IN	
	PUBLISHER'S CLAIM	
	48 lines, 2 columns wide equals 96 equivalent lines at \$0.63 per line @ 1 days,	\$60.56
	Website Publication	<u>\$0</u>
Acct #:INI-1967 Ad #: 0004098388	Charge for proof(s) of publication	<u>\$0.00</u>
DATA FOR COMPUTING COST  Width of single column 9.5 ems  Number of insertions 1  Size of type 7 point	TOTAL AMOUNT OF CLAIM	<u>\$60.56</u>
Claim No Warrant No IN FAVOR OF	I have examined the within claim and hereby certify as follows:	
<b>The Indianapolis Star</b> Indianapolis, IN	That it is in proper form.	
Marion County 130 S. Meridian St. Indianapolis, IN 4622	This it is duly authenticated as required by law.	
	That it is based upon statutory authority.	
\$ On Account of Appropriation For	That it is apparently (correct) (incorrect)	
FED. ID #06-1032273 Allowed, 20		-
In the sum of \$		
I certify that the within claim is true and correct; that there-in itemized and for which charge is made were and were necessary to the public business.		

#### Public Notice Designation No. 1600828

The Indiana Department of Transportation (INDOT) is offering Bridge 026-38-03430A carrying SR 26 over the Salamonie River in Jay County to interested responsible parties. The bridge is eligible for the National Register of Historic Places and has been determined "Non-Select" for preservation per the Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges. The status of this bridge is currently "pending," which means that its future is currently unknown as the Section 106 historic review process is on-going. Depending on the outcome of Section 106 consultation, interested parties may be able to utilize the bridge.

The bridge is a 150-foot-long one-span steel Parker through truss built in 1941. The bridge has a clear roadway width of 28 ft. on a zero-degree skew, featuring a concrete cast-in-place deck with non-standard steel bridge railings. A photo and general information about the bridge can be viewed at the following website: http://www.in.gov/indot/2532.htm. Additional information about the bridge is available for review by contacting the person listed below.

INDOT is now accepting proposals for the rehabilitation and reuse, or the storage and future reuse of the bridge. Proposals will also be accepted for the salvage of elements of the bridge. Any proposals should be received within the next six months. Funding of any rehabilitation, reuse, storage, dismantling, reconstruction, salvage, etc. of this bridge would be the responsibility of the new owner. Interested parties should submit a written proposal for reuse to the contact below as soon as possible: Jeremy Greene, INDOT Project Manager, 32 South Broadway St., Greenfield, IN 46140, Office: (317) 467-3472, Email: JeGreene@indot.in.gov.

INI - 3/9/2020 - 0004098388

hspaxlp

Form Prescribed by State Board of Accounts
Indiana Dept of Transportation
Designation
The Commercial Review
To: The Graphic Printing Co., Inc. To: The Graphic Printing Co., Inc.

(Governmental Unit)

Jay County, Indiana

P.O. Box 1049 Portland, IN 47371

# **Public Notice**

Designation No. 1600828 The Indiana Department of Transportation (INDOT) is offering Bridge (26-38-03430A carrying SR 26 over the Salamonie River in Jay County to interested respons ble parties. The bridge is eligible for the National Register of Historic Places and has been determined "Non-Select" for preservation per the Programmatic Agreement Regarding Management and Preservation of Indiana's Historic Bridges. The status of this bridge is currently "pending," which means that its future is currently unknown as the Section 106 historic review process is on-going. Depending on the outcome of Section 106 consultation, interested parties may be able to utilize the bridge.

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Date:

March 10, 2020

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Tonia C. Hardy

Title: Business Manager

# Appendix E Red Flag Investigation



### INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue Room N642 Indianapolis, Indiana 46204 PHONE: (317) 232-5113 FAX: (317) 233-4929 Eric Holcomb, Governor Joe McGuinness, Commissioner

Date: March 19, 2020

To: Site Assessment & Management

Environmental Policy Office - Environmental Services Division

Indiana Department of Transportation 100 N Senate Avenue, Room N642

Indianapolis, IN 46204

From: Laney Walstra

Greenfield District 1104 Prospect St. Indianapolis, Indiana laney@green3studio.com

Re: RED FLAG INVESTIGATION

DES 1600828, State Project

Bridge Project

SR 26 over Salamonie River, 0.78 miles East of US 27

Jay County, Indiana

#### PROJECT DESCRIPTION

**Brief Description of Project**: The Federal Highway Administration (FHWA) and Indiana Department of Transportation (INDOT) intend to proceed with a bridge project on SR 26 over Salamonie River in Jay County, approximately 0.78 miles East of US 27. The existing structure is a Steel Parker Through Truss bridge with a 28'-0" bridge roadway width and two travel lanes. The current preferred alternative is a full bridge replacement to a continuous composite prestressed concrete bulb tee beam bridge with three spans. Riprap will be placed at the end bents, and piers. Two piers will be added in the replacement. Approach work will occur, with shoulder paving, and guardrail work. Regrading of ditches may occur due to erosion.

<b>Bridge and/or Culvert Project</b> : Yes ⊠ No □ Structure # <u>026-38-03430 A (NBI 007040)</u>
If this is a bridge project, is the bridge Historical? Yes $oxtimes$ No $oxdot$ , Select $oxdot$ Non-Select $oxdot$
(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations
Section of the report).
<b>Proposed right of way</b> : Temporary ⊠ # Acres <u>TBD</u> Permanent ⊠ # Acres <u>TBD</u> , Not Applicable □
Type of excavation: 250 CYD of common excavation, 500 CYD of waterway excavation, and 720 CYD of fill
Maintenance of traffic: Maintenance of Traffic is anticipated to be a full closure with a detour.
<b>Work in waterway</b> : Yes $\boxtimes$ No $\square$ Below ordinary high water mark: Yes $\boxtimes$ No $\square$
State Project: ⊠ LPA: □
Any other factors influencing recommendations: Plans have not been finalized at this time.

#### **INFRASTRUCTURE TABLE AND SUMMARY**

Infrastructure					
Religious Facilities	1*	Recreational Facilities	2		
Airports <sup>1</sup>	1	Pipelines	N/A		
Cemeteries	1	Railroads	N/A		
Hospitals	N/A	Trails	6		
Schools	2	Managed Lands	N/A		

**Religious Facilities:** One\* (1) religious facility is located within the 0.5 mile search radius. Immaculate Conception Catholic Church (506 E Walnut St) is not mapped on the GIS data and is located approximately 0.42 mile northwest of the project area. No impacted is expected.

**Recreational Facilities:** Two (2) recreational facilities are located within the 0.5 mile search radius. The nearest facility, East Elementary School, is adjacent to the project area. Coordination with East Elementary School will occur.

**Airports:** No infrastructure resources were identified within the 0.5 mile search radius. Although not located within the 0.5 mile search radius, one (1) public-use airport, Portland Municipal, is located within 3.8 miles (20,000 feet) of the project area. The public airport is located approximately 1.69 miles northwest of the project area; therefore, early coordination with INDOT Aviation will occur.

**Cemeteries:** One (1) cemetery is located within the 0.5 mile search radius. Unknown Cemetery (SHAARD ID: CR-38-68) is within the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources will occur.

**Trails:** Six (6) trail segments are located within the 0.5 mile search radius. One (1) trail (Additional Nature Trails, Completed) is located adjacent to the project area. Coordination with Portland Parks and Recreation Department will occur.

**Schools**: Two (2) schools are located within the 0.5 mile search radius. East Elementary School (705 E. Tallman Street) is adjacent to the project area. Coordination with East Elementary School will occur.

Note to Reader: The trail named Additional Nature Trails, Completed is mapped incorrectly and is actually located in Hudson Family Park. Based on coordination with INDOT SAM, because no substantive changes to this report are needed, an addendum is not necessary.

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#### WATER RESOURCES TABLE AND SUMMARY

Water Resources			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	7
Canal Structures – Historic	N/A	Lakes	6
NPS NRI Listed	N/A	Floodplain - DFIRM	5
NWI-Lines	8	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	N/A	Sinkhole Areas	N/A
Rivers and Streams	7	Sinking-Stream Basins	N/A

**NWI-Wetlands:** Seven (7) NWI-wetlands are located within the 0.5 mile search radius. Three wetlands are located within or adjacent to the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**Lakes:** Six (6) lakes are located within the 0.5 mile search radius. The nearest lake is located approximately 0.02 mile north of the project area. No impacts are anticipated.

**Floodplain:** Five (5) floodplain polygons are mapped within the 0.5 mile search radius. The closest floodplain is associated with the Salamonie River and is located within the project area. Coordination with INDOT ES Ecology and Waterway Permitting will occur.

**NWI-Lines:** Eight (8) NWI-lines are located within the 0.5 mile search radius. The nearest NWI-line is associated with the Salamonie River located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ES Ecology and Waterway Permitting will occur.

**Rivers and Streams:** Seven (7) river and stream segments are located within the 0.5 mile search radius. The nearest stream is the Salamonie River and is located within the project area. A Waters of the US Report will be prepared, and coordination with INDOT Ecology and Waterway Permitting will occur.

#### **URBANIZED AREA BOUNDARY SUMMARY**

**Urbanized Area Boundary (UAB):** This project lies within the Portland UAB; however, a Rule 13 Permit from IDEM has not been issued. No further coordination is necessary at this time.

#### MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration					
Petroleum Wells	N/A	Mineral Resources	N/A		
Mines – Surface	N/A	Mines – Underground	N/A		

Explanation: No mining and mineral resources were identified within the 0.5 mile search radius.

#### HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns					
Superfund	N/A	Manufactured Gas Plant Sites	N/A		
RCRA Generator/ TSD	N/A Open Dump Waste Sites		N/A		
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A		
State Cleanup Sites	N/A	Waste Transfer Stations	N/A		
Septage Waste Sites	N/A	Tire Waste Sites	N/A		
Underground Storage Tank (UST) Sites	1	Confined Feeding Operations (CFO)	N/A		
Voluntary Remediation Program	N/A	Brownfields	1		
Construction Demolition Waste	N/A	Institutional Controls	N/A		
Solid Waste Landfill	N/A	NPDES Facilities	2		
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	3		
Leaking Underground Storage (LUST) Sites	1	Notice of Contamination Sites	N/A		

**Underground Storage Tank (UST):** One (1) Underground Storage Tank (UST) is within the 0.5 mile search radius. East Elementary School (705 Tallman Ave, and AI 20603) is located approximately 0.16 mile west of project location. Documentation on the IDEM Virtual File Cabinet (VFC) indicates that one UST was in use 1989. No impact is expected.

**Leaking Underground Storage (LUST) Site:** One (1) Leaking Underground Storage Tank (LUST) is within the 0.5 mile search radius. Coco-Cola Bottling (510-520 E Arch St, Al 16880) is located approximately 0.49 mile northwest of project site. IDEM issued a No Further Action Approval Determination Pursuant to Risk Integrated System of Closure on March 13, 2012. No impact is expected.

**Brownfields:** One (1) Brownfield is within the 0.5 mile search radius. Joy Property (420-422 E Water St, AI 106586) is located approximately 0.45 mile west of project site. No impact is expected.

**NPDES Facilities:** Two (2) NPDES Facilities are located within the 0.5 mile search radius. The nearest facility, SR-26 NPDES Facility (SR 26 & US HWY 26, Permit Number: INR10J274), is located approximately 0.35 mile west of the project site. No impact is expected.

**NPDES Pipe Locations:** Three (3) NPDES Pipe Locations are located within the 0.5 mile search radius. Portland WWTP has one inactive and two active NPDES Pipe Locations. The nearest location is approximately 0.26 mile southwest to the project site. No impact is expected.

#### **ECOLOGICAL INFORMATION SUMMARY**

The Jay County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT Environmental Services did not indicate the presence of ETR species within the 0.5 mile search radius.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The August 20, 2019 inspection for Bridge 026-38-03430 A states that no evidence of bats was seen or heard

under the bridge). The range-wide programmatic consultation for the Indiana bat and Northern long-eared bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

#### RECOMMENDATIONS SECTION

**HISTORIC RESOURCES**: This project involves a non-select historic bridge located on SR 26 over the Salamonie River (Structure Number: 026-38-03430 A, NBI: 007040). Coordination with INDOT CRO will occur.

#### INFRASTRUCTURE:

Recreational Facilities: Two (2) recreational facilities are located within the 0.5 mile search radius. East Elementary is adjacent to the project area. Coordination with East Elementary School will occur.

Airports: Although not located within the 0.5 mile search radius, Portland Municipal a public-use airpost, is located within 3.8 miles (20,000 feet) of the project area. The public airport is located approximately 1.69 miles Northwest of the project area; therefore, early coordination with INDOT Aviation will occur.

Cemeteries: Unknown Cemetery (SHAARD ID: CR-38-68) is adjacent to the project area. A Cemetery Development Plan may be required since this project is within 100 feet of the cemetery. Coordination with INDOT Cultural Resources will occur.

Trails: One (1) trail (Additional Nature Trails, Completed) is located adjacent to the project area. Coordination with Portland Parks and Recreation Department will occur.

Schools: One (1) school is located within the 0.5 mile search radius. East Elementary is adjacent to the project area. Coordination with East Elementary School will occur.

#### WATER RESOURCES:

The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ES Ecology and Waterway Permitting:

- Three (3) wetlands are located within and adjacent to the project area.
- One (1) stream segment, Salamonie River, flows through the project area.
- One (1) NWI-line, Salamonie River, flows through the project area.
- This project is located within the floodplain of the Salamonie River (coordination only).

**URBANIZED AREA BOUNDARY: N/A** 

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: N/A

**ECOLOGICAL INFORMATION**: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana bat and Northern Long-eared bat will be completed according to "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects."

Nicole FoheyBreting
Digitally signed by
Nicole Fohey-Breting
Date: 2020.03.19
13:49:13 -04'00'

INDOT Environmental Services concurrence:

: \_\_\_\_\_(Signature)

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Prepared by: Laney Walstra Ecologist Green 3, LLC

**Graphics**:

SITE LOCATION: YES

INFRASTRUCTURE: YES

WATER RESOURCES: YES

**URBANIZED AREA BOUNDARY: YES** 

MINING/MINERAL EXPLORATION: N/A

HAZARDOUS MATERIAL CONCERNS: YES

Note to Reader: the Site Location Map in Appendix B-2 was included in this report; it was deleted here to avoid duplication.

# Red Flag Investigation - Infrastructure SR 26 over Salamonie River, 0.78 miles East of US 27 Des. No. 1600828, Bridge Project

Jay County, Indiana Jay Co. Fairgrounds Unmapped trail system located here, on Jay-Randolph Development Services and recycling facility property. This mapped trail is ocated approximately 215 linear feet south of the project area. This trail is mapped incorrectly; GIS records indicate it is located in Hudson Family Park, which is located approximately 0.51 mile southeast of the

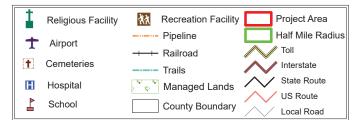


Miles Non Orthophotography

Data - Obtained from the State of Indiana Geographical Information Office Library Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)

Map Projection: UTM Zone 16 N Map Datum: NAD83 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

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# Red Flag Investigation - Water Resources SR 26 over Salamonie River, 0.78 miles East of US 27 Des. No. 1600828, Bridge Project

Jay County, Indiana HART THE PARTY OF 0.1 0.05 Wetlands Project Area NWI - Point Sources: Miles
Non Orthophotography

Data - Obtained from the State of Indiana Geographical
Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data Half Mile Radius Karst Spring Floodplain - DFIRM Impaired\_Stream\_Lake Cave Entrance Density Map Projection: UTM Zone 16 N Map Datum: NAD83 NPS NRI listed Sinkhole Area This map is intended to serve as an aid in graphic representation only. This information is not warranted Sinking-Stream Basin US Route

Canal Structure - Historic

Canal Route - Historic

Appendix E-8

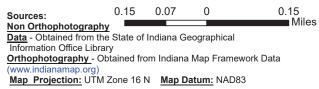
County Boundary

Local Road

for accuracy or other purposes.

# Red Flag Investigation - Urbanized Area Boundary SR 26 over Salamonie River, 0.78 miles East of US 27 Des. No. 1600828, Bridge Project

Jay County, Indiana

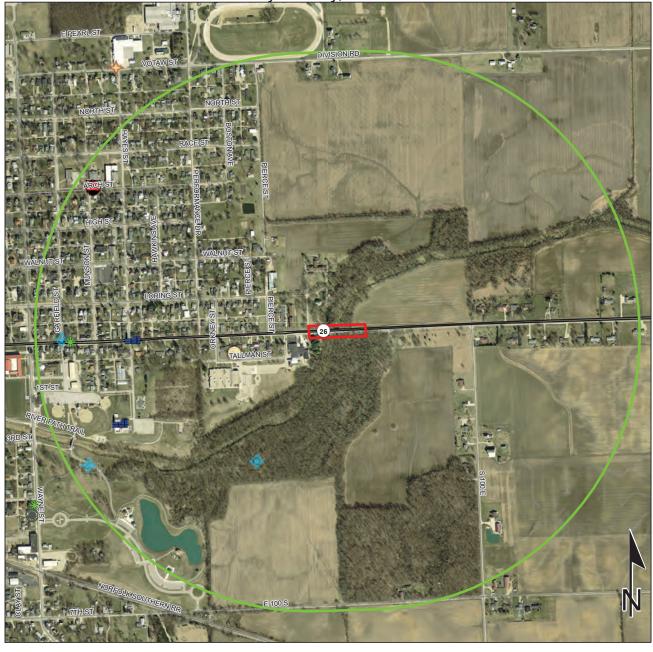


This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.



## Red Flag Investigation - Hazardous Material Concerns SR 26 over Salamonie River, 0.78 miles East of US 27 Des. No. 1600828, Bridge Project

Jay County, Indiana





0.1 0.05 0 0.1 Miles

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# Indiana County Endangered, Threatened and Rare Species List County: Jay

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
Epioblasma triquetra	+,-%%.\$	01	+1	2 3	+#
Pleurobema clava	4567!55	01	+1	2#2*	+#
Ptychobranchus fasciolaris	89:,!;67!55		++4	2<2'	+*
Toxolasma lividus	Ā-=>5!"09559>-?	4	++4	23@	+*
Insect: Odonata (Dragonflies & Damselflies)  Enallagma divagans	A-=B-\$96!"C5-!?		+D	2'	+3
Macromia wabashensis	E Ä.Ä67"D9F! <del>-"-</del> -96 <u>+</u> -!=		+1	2#23@	+#
Reptile					
Clonophis kirtlandii	89=?5Ä,:G6ÄH H!		+1	2*	+*
Thamnophis proximus proximus	E!6?!=,"D9\$,"+,ÄH!		++4	2'A'	+3
Bird	,				
Botaurus lentiginosus	IJ!=¶Ä,"C9?≒,		+1	2'	+*C
Circus hudsonius	L\$=?7=,"MÄ=!=9!=		+1	2'	+*
Cistothorus platensis	+!: !"E=! ,		+1	2'	+3C
Haliaeetus leucocephalus	CÄ5:"1Ä 5!		++4	2'	+*
Ixobrychus exilis	0! \( \text{\hat{N}} ?"C9\text{\hat{P}} = ,		+1	2'	+3C
Nycticorax nycticorax	C5ÄKHNK=\$0,!:"L9 7?N,7!=\$,		+1	2'	+#C
Tyto alba	CÄ=,P O55		+1	2'	+*
Mammal					
Mustela nivalis	0!Ä6?"E!Ä6!5		++4	2'	+*Q
Myotis sodalis	R: 9Ä,Ä"CÄ?	01	+1	2*	+#
Vascular Plant					
Carex timida	A9J9:"+!: !		+1	2*2<	+#
Dactylorhiza viridis	0\$, N.=ÄK?"2=!!,"P=K796		+1	2'	+#
Panax quinquefolius	IJ!=9KÄ,"29,6!,		E0	232<	+3
Viola pedatifida	Ā=Ä9 <b>=99</b> \$5!35!?		+A	2'	+*
High Quality Natural Community					
Forest - flatwoods central till plain	4!,?=Ä5"A955"Ā5Ä9,"T5Ä?O\$\$:6		+2	23	+*
Forest - floodplain mesic	U!69K"T5\$\$:>5Ä9,"T\$=!6?		+2	23Q	+#
Forest - upland dry-mesic Central Till Plain	4!,?=Ä5"A955"Ā5Ä9,"V=;NJ!69K" W>5Ä,:"T\$=!6?		+2	2LD	+*
Prairie - dry-mesic	V=;NJ!69K"Ā=Ä9=9!		+2	23	+*
Prairie - mesic	U!69K"Ā=Ä9=9!		+2	2*	+*
Prairie - wet	E!?"Ā=Ä9=9!		+2	23	+#
Wetland - marsh	UÄ=67		+2	2W	+<

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<sup>25\$.</sup>Ä55;M!=9?Ä!"DÄ,HY"2#"Z"K=9?9KÄ55;"9J>!=95!**2\*5%**Ä55;[=95!:"5\$.Ä55;["23"Z"=Ä=!"\$="-,K\$JJ\$," 5\$.Ä55;["2<"Z"O9:!6>=!Ä:"Ä,:"Ä.-,:Ä,?" 5\$.Ä55;"-2"O9?7"5\$]=J?K\$,K!=,6["2""Z"O9:!6>=!Ä:"Ä,:"Ä.-,:Ä,?" 5\$.Ä55;["20"Z"-,=Ä,H!:["2\"Z"!/?9,K?[""@"Z"-,K!=?Ä9,"=Ä,H‡Ä**%**;%ZJ9K"6-.-,9?"=Ä,H

**Subject:** RE: Des. No. 1600828 S.R. 26 over Salamonie River

Date: Wednesday, April 7, 2021 at 2:47:03 PM Eastern Daylight Time

**From:** Foheybreting, Nicole K

To: Erin Mulryan

Attachments: image023.png, image024.png, image025.png, image026.png, image027.png, image028.png,

image029.png, image030.png, image031.png, image032.png, image033.png, image034.png, image035.png, image036.png, image037.png, image038.png, image039.png, image040.png, image041.png, image042.png, image043.png, image044.png, image045.png, image045.png, image045.png, image047.png, image048.png, image049.png, image050.png, image051.png, image052.png, image053.png. image054.png. image055.png. image056.png. image057.png. image058.png.

#### Greetings Erin -

Thank you for the update and the clarification on the trail segment that is mapped adjacent to the project area on GIS. It sounds as though the mapped trail segment is not a concern (nor is it adjacent) to the project area and, since coordination already occurred in 2020, it does not sound as though an RFI Addendum is needed. A note in the CE clarifying the presence of the trail sounds appropriate.

I hope this helps. Please let me know if I can be of any additional assistance. Thank you,
Nicole

M) Specialist



The Site Assessment and Management (SAM) Manual can be found at https://www.in.gov/indot/4170.htm

Be sure to refer to the updated information in the SAM Manual for document preparation and submission.

From: Erin Mulryan <emulryan@sjcainc.com> Sent: Wednesday, April 07, 2021 2:25 PM

**To:** Foheybreting, Nicole K < NFoheyBreting@indot.IN.gov> **Subject:** Re: Des. No. 1600828 S.R. 26 over Salamonie River

\*\*\*\* This is an EXTERNAL email. Exercise caution. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*\*

# Appendix F Water Resources

Juliana Clayton Approved 7.9.2020

# WATERS DETERMINATION REPORT

# S.R. 26 OVER SALAMONIE RIVER BRIDGE REPLACEMENT DES. NO. 1600828 WAYNE TOWNSHIP, JAY COUNTY, INDIANA

**Prepared for:** 

USI Consultants, Inc.

April 2, 2020



Prepared by:

**Metric Environmental, LLC** 

**Complex Environment. Creative Solutions.** 

6971 Hillsdale Court Indianapolis, IN 46256 Telephone: 317.207.4286 www.metricenv.com

#### WATERS OF THE U.S. DETERMINATION REPORT

# S.R. 26 over Salamonie River Bridge Replacement Wayne Township, Jay County, Indiana Des. No. 1600828

Prepared By: Cory Shumate, Metric Environmental, LLC April 2, 2020

Date of Waters Field Investigation: August 28, 2019

#### Location:

Section 21; Township 23 North; Range 14 East

Portland, IN 7.5-minute USGS Topographic Quadrangles (Exhibit 2)

Wayne Township, Jay County, Indiana 12-Digit HUC Watershed: 051201020103 Latitude: 40.43258 Longitude: -84.96348

#### **FEMA Flood Insurance Rate Map (FIRM):**

One mapped floodplain is located within the project study limits (PSL). This floodplain was associated with Salamonie River and identified as Zone AE, an area subject to inundation by the 1 percent annual chance of flood. The FIRM map for this area is provided as **Exhibit 3**.

#### **USGS National Hydrography Dataset (NHD) Information:**

One mapped NHD flowline is located within the PSL, listed in the table below. The NHD Flowline map is provided in **Exhibit 3**.

Corresponding Feature	NDH Flowline Classification	Photo Nos.	USGS Blue line
Salamonie River	Artificial Path	25-38	Yes

#### **National Wetlands Inventory (NWI) Information:**

Five mapped NWI polygons are located within the PSL, listed in the table below. The NWI map is provided as **Exhibit 4**.

Symbol	Symbol Wetland Type		Corresponding Feature
R2UBH	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded	Central	Calamania Divar
R2UBHx	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded, Excavated	Central	Salamonie River

Symbol	Wetland Type	Location within PSL	Corresponding Feature
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Northcentral	Open Water 1
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Southcentral	None
PFO1A	Palustrine, Forested, Broad-leaved Deciduous, Temporarily Flooded	Eastern	Wetland A

#### **Karst Feature Information:**

No mapped karst features were found within 0.5 mi. of the PSL during the desktop review.

#### Soils:

According to the Natural Resources Conservation Service (NRCS) Soil Survey Geographic (SSURGO) Database for Jay County, Indiana, the PSL contained four mapped soil units, listed in the table below. The NRCS Soil Survey map is provided as **Exhibit 4**.

Symbol	Map unit name	Hydric Rating (%)
BIA	Blount-Glynwood, thin solum complex, 0 to 3 percent slopes	Hydric (5)
Ee	Eel clay loam, frequently flooded	Hydric (5)
GlgB2	Glynwood silt loam, ground moraine, 1 to 4 percent slopes, eroded	Hydric (3)
Pm	Pewamo silty clay, 0 to 2 percent slopes	Hydric (91)

#### **Attached Documents:**

Maps of the project area (Exhibits 1-5)
Photo Location Map (Exhibit 6)
Site Photographs
Wetland Determination Data Form(s)
Preliminary Jurisdictional Determination Form

#### **Project Description:**

The proposed project (Des. No. 1600828) includes replacement of the existing bridge (Bridge No. 026-38-03430 A/NIBI No. 007040), which carries S.R. 26 over Salamonie River in Wayne Township, Jay County, Indiana. The existing structure is a 150 ft. long span with a 28 ft. clear roadway width curb-to-curb. The proposed improvements include installation of a two-lane bridge that is a 3-span structure with a 30-ft. clear roadway width, subject to change upon further project design.

#### Field Reconnaissance:

The wetland determination field visit was conducted on October 28, 2019 by Zachary Root and Cory Shumate of Metric Environmental, LLC. The project study area received over an inch of rain between August 26, 2019 and August 27, 2019. The PSL consists of the area that has the potential to be impacted, based on the provided design scenario. This area was evaluated for the presence of wetlands and Waters of the United States. This investigation was conducted in accordance with the 1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual and the August 2010 Midwest Regional Supplement (version 2.0) Manual.

A Location Map showing the project location is provided as **Exhibit 1**. The proposed project is located in central Jay County, Indiana, on S.R. 26, approximately 0.75 mi. east of the intersection of S.R. 26 and U.S. 27. The PSL extended approximately 1,700 ft. along S.R. 26, approximately 125 ft. north of S.R. 26 centerline, and approximately 65 ft. south of S.R. 26 centerline. An aerial map of sampling points and water features is provided as **Exhibit 5**. A photo location map is provided as **Exhibit 6** and site photographs are attached.

The site was investigated for evidence of hydrophytic vegetation, hydric soil, and wetland hydrology to determine if the project impacts wetlands and other Waters of U.S. The sampling point (SP) locations were chosen in possible wetland areas within the PSL. The upland areas consisted of deciduous forest, residential lawn, and agricultural crop field. Upland areas where sampling points were not taken, were investigated and determined to be upland due to upward sloping topography and/or presence of dominant upland vegetation. Eight sampling points were taken, recorded on the USACE Wetland Determination Data Forms and shown on **Exhibit** 6. The sampling points provided the following information:

#### **Sampling Plot Data Summary Table**

Plot #	Photo #s	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within Wetland
SP-A1	1-3	40.4325 -84.96183	Yes	Yes	Yes	Yes, Wetland A
SP-A2	4-6	40.43236 -84.96347	Yes	No	Yes	No, Wetland A Upland
SP-B1	7-9	40.4326 -84.96485	Yes	Yes	Yes	Yes, Wetland B
SP-B2	10-12	40.43265 -84.96484	No	No	No	No, Wetland B Upland
SP-1	13-15	40.43266 -84.96338	Yes	No	Yes	No
SP-2	16-18	40.43249 -84.96373	Yes	No	Yes	No
SP-3	19-21	40.43264 -84.9637	Yes	No	Yes	No

Plot #	Photo #s	Lat/Long	Hydrophytic Vegetation	Hydric Soils	Wetland Hydrology	Within Wetland
SP-4	22-24	40.43268 -84.96255	Yes	No	Yes	No

#### Wetlands:

Two wetlands were observed within the PSL. Descriptions of the wetlands and corresponding sampling points are provided below.

#### **Wetland Summary Table**

Wetland Name	Photo #s	Lat/Long	Cowardin Class	Total Area	Quality	Likely Water of
rame			0.000	acres		the U.S.
Wetland A	2, 3, 63, 66,	40.4325	PFO1A	0.128	Avorago	No
Wetland A	67	-84.96178	PFOIA	0.128	Average	INO
Wetland B	8, 9, 11, 12	40.4326	PSS1A	0.005	Poor	No
vvetiallu b	0, 3, 11, 12	-84.96487	F331A	0.005	F001	INO

#### Wetland A (0.128 ac.) - PFO1A

Wetland A was classified as a Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded (PFO1A) wetland. This wetland is located in a drainage ditch within the floodplain of Salamonie River, south of S.R. 26 and east of Salamonie River. Wetland A likely receives stormwater drainage on a consistent basis during rain events. Wetland A does not directly abut a jurisdictional stream and should therefore be considered a Waters of the State. The boundaries of Wetland A were delineated by the lack of wetland vegetation and/or increased elevation. The east and west areas of Wetland A were separated by a 16-in. corrugated metal pipe (CMP) culvert. These were determined to be one wetland due to proximity and topography indicating that both areas shared a hydrologic connection. Reed canary grass (Phalaris arundinacea, FACW) dominated the western area of Wetland A and a mixture of reed canary grass (Phalaris arundinacea, FACW) and spotted touch-me-not (Impatiens capensis, FACW) dominated the eastern area of Wetland A. Wetland A was associated with a mapped PFO1A NWI polygon and was formed within Ee, GlgB2, and BIA mapped soil units, which are listed as 5 percent, 3 percent, and 5 percent hydric, respectively. Wetland A is adjacent to road and forest and likely receives run-off from both of these sources. While the wetland was forested and bordered a deciduous forest to the south, it was also dominated by reed canary grass (Phalaris arundinacea, FACW), an invasive plant species, in the herb stratum. These factors contribute to the conclusion that the wetland can support an average amount of wildlife or aquatic habitat, and therefore should be considered to be of average quality.

#### Sampling Point A1 (SP-A1) – Wetland A

SP-A1 was located at the toe of a hillslope in a drainage ditch south of S.R. 26 and east of Salamonie River. The dominant vegetation at this sampling point was black walnut (*Juglans nigra*, FACU) in the tree stratum and reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicator of prevalence index (2.33). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 11 in., the soil exhibited a matrix color of 10YR 3/1 (85 percent) with 5YR 3/4 (15 percent) prominent redox concentrations along pore linings. From 11 to 20 in., the soil exhibited a matrix color of 10YR 3/1 (80 percent) with 10YR 5/8 (15 percent) prominent redox concentrations in the matrix and 5YR 3/4 (5 percent) prominent redox concentrations along pore linings. This met the hydric soil indicator of redox dark surface (F6). Indicators of wetland hydrology observed during the field reconnaissance included oxidized rhizospheres on living roots (C3), drainage patterns (B10), and geomorphic position (D2) due to the sampling point's location at the toe of a hillslope within a drainage ditch. Since all three required wetland criteria were met, this area qualified as a wetland.

#### Sampling Point A2 (SP-A2) - Wetland A Upland

SP-A2 was located on a stream terrace of Salamonie River, west of Wetland A. The dominant vegetation at this sampling point was common hackberry (*Celtis occidentalis*, FAC), ash-leaf maple (*Acer negundo*, FAC), and white mulberry (*Morus alba*, FAC) in the tree stratum and tall goldenrod (*Solidago gigantea*, FACW) and hooded blue violet (*Viola sororia*, FAC) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.60). To a depth of 20 in., the soils in the test pit were a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included drainage patterns (B10), geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

#### Wetland B (0.005 ac.) – PSS1A

Wetland B was classified as a Palustrine, Scrub-shrub, Broad-Leaved Deciduous, Temporarily Flooded (PSS1A) wetland. This wetland is located in a drainage ditch north of S.R. 26 and west of Salamonie River. Wetland B likely receives stormwater drainage on a consistent basis during rain events. Wetland B does not directly abut a jurisdictional stream and should therefore be considered a Waters of the State. The boundaries of Wetland B were delineated by the lack of wetland vegetation and/or increased elevation. Wetland B was not associated with a mapped NWI polygon and was formed within GlgB2 mapped soil unit, which is listed as 3-percent hydric. Wetland B is adjacent to road and residential property and likely receives run-off from both of these sources. The wetland also exhibited poor plant species

diversity. These factors contribute to the conclusion that the wetland can support a poor amount of wildlife or aquatic habitat, and therefore should be considered to be of poor quality.

#### Sampling Point B1 (SP-B1) – Wetland B

SP-B1 was located in a drainage ditch north of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was green ash (*Fraxinus pennsylvanica*, FACW) and black walnut (*Juglans nigra*, FACU) in the sapling/shrub stratum and broad-leaf cattail (*Typha latifolia*, OBL) and common boneset (*Eupatorium perfoliatum*, OBL) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (75 percent) and prevalence index (1.88). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 9 in., the soil exhibited a matrix color of 10YR 4/2 (75 percent) with 10YR 5/3 (15 percent) faint redox concentrations and 7.5YR 5/8 (10 percent) prominent redox concentrations in the matrix. From 9 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (70 percent) with 10YR 5/3 (30 percent) faint redox concentrations in the matrix. This met the hydric soil indicator of depleted matrix (F3). Indicators of wetland hydrology observed included saturation (A3), geomorphic position (D2) due to the sampling point's location in a drainage ditch, and FAC-neutral test (D5). Since all three required wetland criteria were met, this area qualifies as a wetland.

#### Sampling Point B2 (SP-B2) - Wetland B Upland

SP-B2 was located at the top of a hillslope north of Wetland B. The dominant vegetation at this sampling point was red fescue (*Festuca rubra*, FACU) and red clover (*Trifolium pratense*, FACU) in the herb stratum. This did not meet any of the hydrophytic vegetation indicators. To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited mixed matrix colors of 10YR 5/1 (50 percent) and 10YR 5/2 (50 percent). This did not meet any of the hydric soil indicators. No primary or secondary indicators of wetland hydrology were observed. Since none of the three required wetland criteria were met, this area did not qualify as a wetland.

#### **Additional Sampling Points:**

Additional sampling points were taken in areas where wetlands were suspected but did not meet the three wetland criteria. Descriptions of these sampling points are included below.

#### Sampling Point 1 (SP-1)

SP-1 was located on a stream terrace north of S.R. 26 and east of Salamonie River. The dominant vegetation at this sampling point included Washington hawthorn (*Crataegus phaenopyrum*, FAC) and ash-leaf maple (*Acer negundo*, FAC) in the tree stratum and reed canary grass (*Phalaris arundinacea*, FACW) and great ragweed (*Ambrosia trifida*, FAC) and in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.43). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic

position (D2) due to the sampling point's location on a stream terrace and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

#### Sampling Point 2 (SP-2)

SP-2 was located on a stream terrace south of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) and great ragweed (*Ambrosia trifida*, FAC) in the herb stratum. This met the hydrophytic vegetation indicators of dominance test (100 percent) and prevalence index (2.20). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 20 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

#### Sampling Point 3 (SP-3)

SP-3 was located on a stream terrace south of S.R. 26 and west of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicators of rapid test for hydrophytic vegetation, dominance test (100 percent), and prevalence index (2.00). To a depth of 20 in., the soil in the test pit was a silty clay loam. From 0 to 18 in., the soil exhibited a matrix color of 10YR 4/2 (100 percent). From 18 to 20 in., the soil exhibited mixed matrix colors of 10YR 3/4 (45 percent) and 10YR 4/1 (45 percent) with 10YR 6/4 (10 percent) distinct redox concentrations in the matrix. This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included drainage patterns (B10), geomorphic position (D2) due to the sampling point's location on a stream terrace, and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

#### Sampling Point 4 (SP-4)

SP-4 was located at the toe of a hillslope within RSD 5, north of S.R. 26, and east of Salamonie River. The dominant vegetation at this sampling point was reed canary grass (*Phalaris arundinacea*, FACW) in the herb stratum. This met the hydrophytic vegetation indicators of rapid test for hydrophytic vegetation, dominance test (100 percent), and prevalence index (2.77). To a depth of 20 in., the soils in the test pit were silty clay loam. From 0 to 11 in., the soil exhibited a matrix color of 10YR 3/2 (100 percent). From 11 to 20 in., the soil exhibited mixed matrix colors of 10YR 3/2 (50 percent) and 10YR 4/2 (50 percent). This did not meet any of the hydric soil indicators. Indicators of wetland hydrology observed included geomorphic position (D2) due to the sampling point's location at the toe of a hillslope within a roadside ditch and FAC-neutral test (D5). Since only two of the three required wetland criteria were met, this area did not qualify as a wetland.

#### Streams:

One stream, Salamonie River, was observed within the PSL during the field reconnaissance. A description of the stream is provided below.

#### **Stream Summary Table**

Stream Name	Photos	Lat/Long	OHWM Width	OHWM Depth	USGS Blue- line	Riffles Pools	Quality	Likely Water of the U.S.	Dominant Substrate	Potential Stream Impact
			ft.	in.				0.5.		ft.
Salamonie River	25-38	40.43258 -84.96353	36.3	10.5	Yes (Perennial)	Riffles & Pools	Poor	Yes	Sand & Silt	200

#### Salamonie River (200 LFT)

Salamonie River flows from northeast to southwest and is approximately 200 linear feet (LFT) (0.167 ac.) within the PSL. Salamonie River is a tributary to the Wabash River. Therefore, Salamonie River should be considered a jurisdictional Water of the U.S. Salamonie River was associated with a solid blue line on the USGS topographic map, indicating it is perennial. Salamonie River was classified as both R2UBH and R2UBHx by the NWI. Salamonie River was indicated to be an "Artificial Path" by the NHD. However, Salamonie River did not appear to have undergone any recent relocation or any other work in the past based on the USGS topographic map (dated 1996) and based on aerial imagery dating back to 1998. Therefore, based on USGS topographic maps, aerial imagery, and field observations, Salamonie River should be considered a perennial stream. The Ordinary High-Water Mark (OHWM) was 36.3 ft. wide and 10.5 in. deep within the PSL. Measurements of the OHWM were collected outside the influence of the existing structure. The dominant stream substrates were sand and silt. Pools were present and the only functional riffles observed were within the influence of the existing structure. The stream exhibited sparse amounts of instream cover which included undercut banks, overhanging vegetation, and logs or woody debris. No sinuosity was observed and water velocity was slow. The floodplain of Salamonie River consisted of forest. No aquatic organisms were observed. According to USGS Indiana StreamStats, the drainage area upstream of Salamonie River at the PSL is 45.873 square miles. Qualities of the stream listed above contribute to this stream being classified as poor quality.

#### **Open Water:**

One open water feature was observed within the PLS during the field reconnaissance and is noted on **Exhibit 5**. Open Water 1 was located in the northcentral portion of the PSL and 0.037 ac. was contained within the PSL.

#### **Roadside Ditches and Drainage Features:**

Six roadside ditches (RSD) and four drainage features (DF) were identified within the PSL. These features aided in stormwater and/or roadside drainage. No OHWM was observed in these features, so they are likely non-jurisdictional.

#### **Roadside Ditches and Drainage Features Summary Table**

Name	Photo #s	Lat/Long	Linear Length (ft)	Location	Description
RSD 1	12, 44	40.43261 -84.96527	177	Northwest Quadrant	Vegetated Swale
RSD 2	52	40.43266 -84.96377	64	Northwest Quadrant	Vegetated Swale, Concrete Ditch
RSD 3	49, 50	40.43246 -84.96426	224	Southwest Quadrant	Vegetated Swale
RSD 4	68, 69	40.43245 -84.963	73	Southeast Quadrant	Vegetated Swale
RSD 5	23, 24, 58, 60	40.4327 -84.96166	698	Northeast Quadrant	Vegetated Swale
RSD 6	61, 62	40.43252 -84.96075	190	Southeast Quadrant	Vegetated Swale
DF 1	44, 45	40.43265 -84.96526	35	Northwest Quadrant	Concrete Ditch
DF 2	12, 46	40.43273 -84.96493	83 Northwest Quadrant		Gravel Ditch
DF 3	53, 54, 56	40.43269 -84.96324	136	Northwest Quadrant	Vegetated/Silt Swale
DF 4	70, 71, 73	40.43245 -84.96334	124	Southeast Quadrant	Vegetated/Silt Swale

#### **Culverts and Drains:**

Four culverts were identified within the PSL. The culverts were composed of either concrete or corrugated metal pipe (CMP). These culverts did not carry jurisdictional waters due to a lack of an OHWM, bed and bank, and lack of a significant nexus to any jurisdictional Waters of the U.S. Locations of these culverts are shown on **Exhibits 5** and **6** and attached photosheet.

#### **Conclusion:**

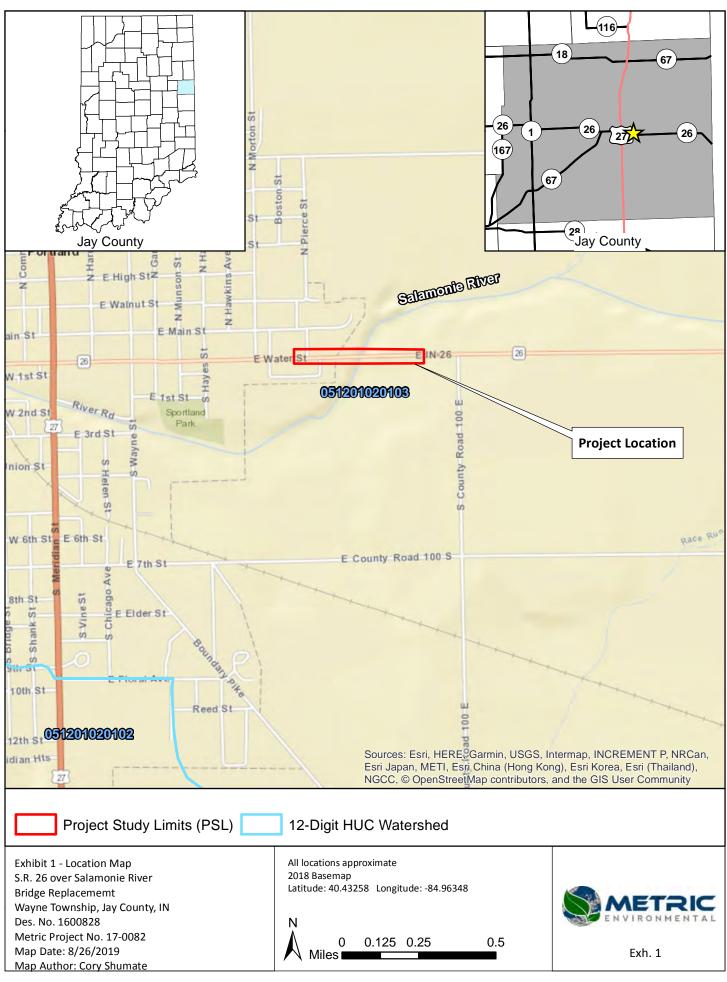
Two wetlands, one PFO1A and the other PSS1A, totaling 0.133 ac., were identified within the project study limits and are likely Waters of the State. One stream, Salamonie River, totaling 200 LFT, was identified within the project study limits. One open water feature, totaling 0.037 acre within the project study limits, was also identified. These waterways are likely Waters of the U.S. Every effort should be taken

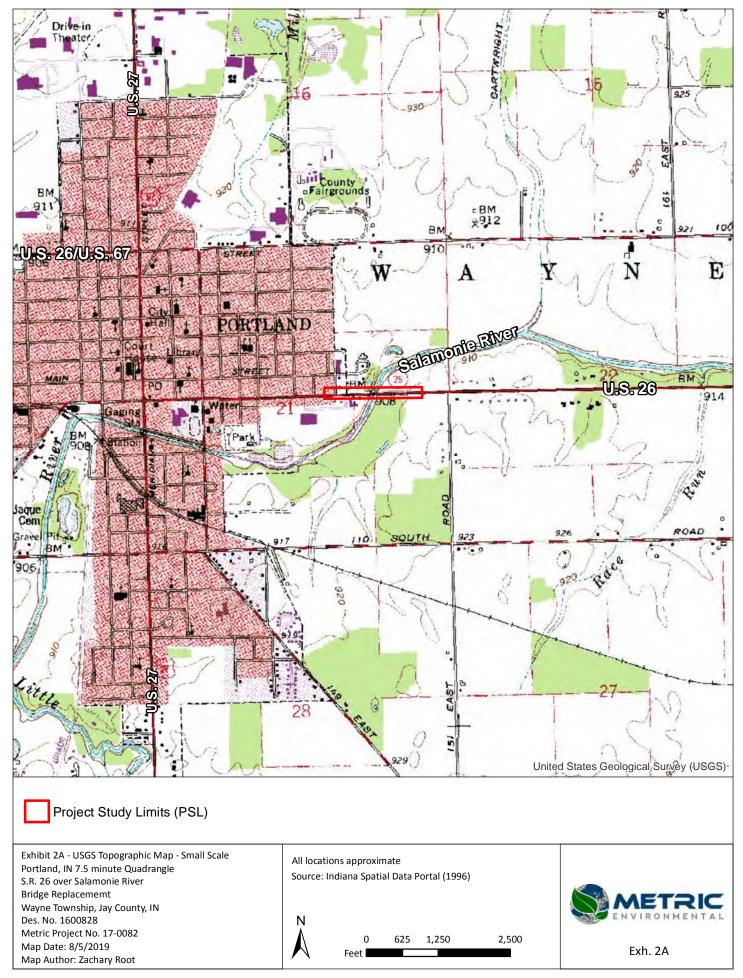
to avoid and minimize impacts to the waterway and wetlands. If impacts are necessary, then mitigation might be required. The INDOT Environmental Services Division should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the U.S. Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

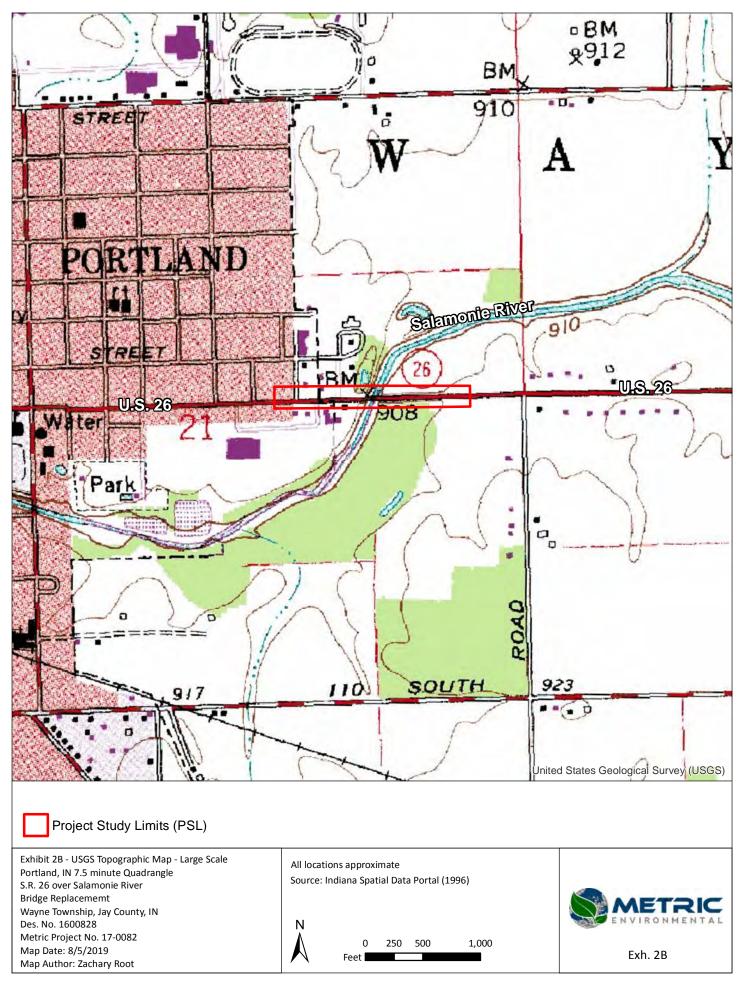
#### **Acknowledgements:**

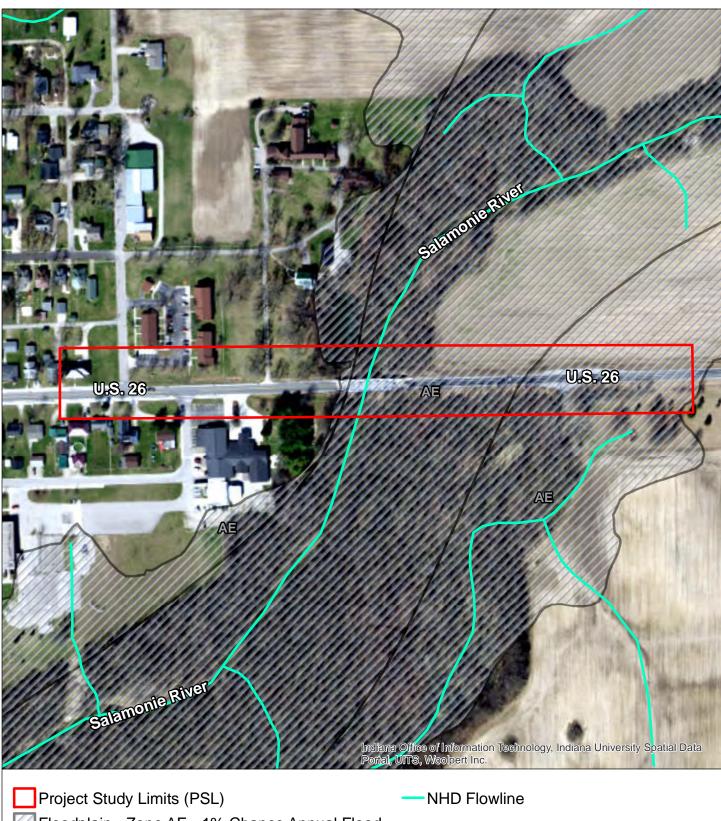
This waters determination has been prepared based on the best available information, interpreted in light of the investigator's training, experience and professional judgement in conformance with the 1987 Corps of engineers Wetlands Delineation Manual, the appropriate regional supplement, the USACE Jurisdictional Determination Form Instructional Guidebook, and other appropriate agency guidelines.

Metric Environmental Staff	Position	Contributing Effort	Signature/Date
Amy Noel Smith	Natural Resources Project Manager II	Project Manager, Field Data Collection	any Noclesmith 4/2/2020
Alex Gray	Natural Resources Project Manager I	QAQC	Alex M. Gray 4/2/2020
Cory Shumate	Environmental Scientist 2	Field Data Collection, Report Preparation	Chumak 4/2/2020
Zachary Root	Environmental Scientist 2	Field Data Collection	Muhany Proot 4/2/2020









Floodplain - Zone AE - 1% Chance Annual Flood

Exhibit 3 - NHD Flowline and FEMA Flood Insurance Rate Map (FIRM) S.R. 26 over Salamonie River Bridge Replacememt Wayne Township, Jay County, IN Des. No. 1600828 Metric Project No. 17-0082 Map Date: 8/26/2019 Map Author: Cory Shumate

All locations approximate

Source: Indiana Spatial Data Portal (2017)

N 0 100 200 400



Exh. 3

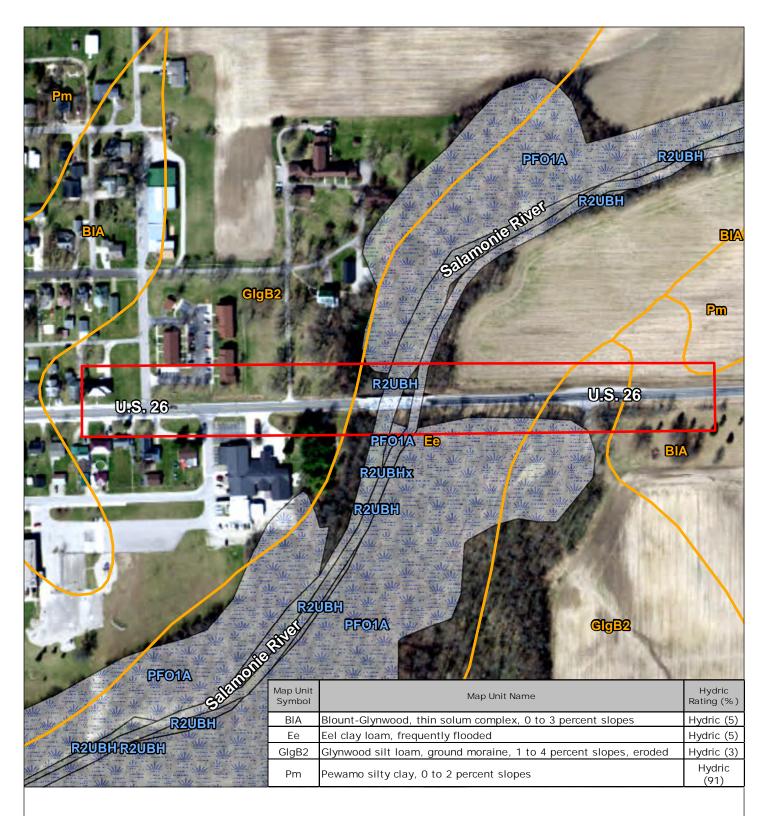


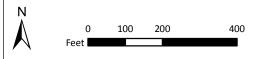


Exhibit 3 - NWI Wetland and NRCS Soil Survey Map S.R. 26 over Salamonie River Bridge Replacememt

Wayne Township, Jay County, IN Des. No. 1600828

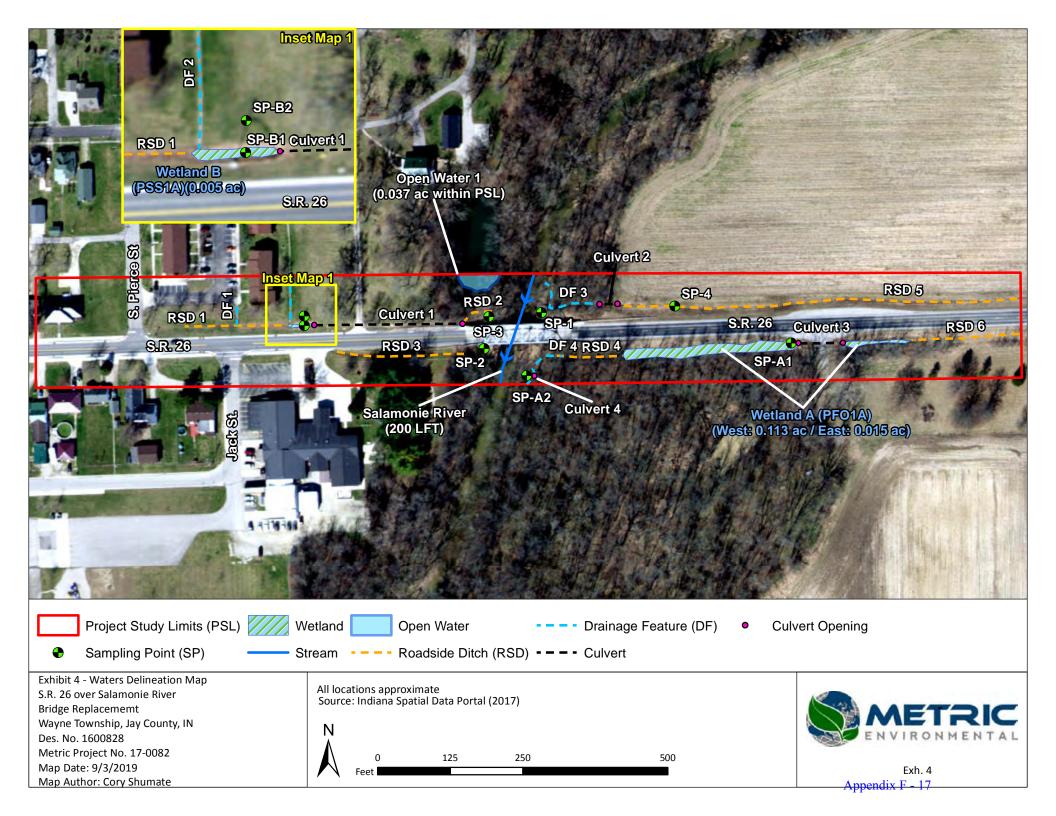
Metric Project No. 17-0082 Map Date: 8/26/2019 Map Author: Cory Shumate All locations approximate

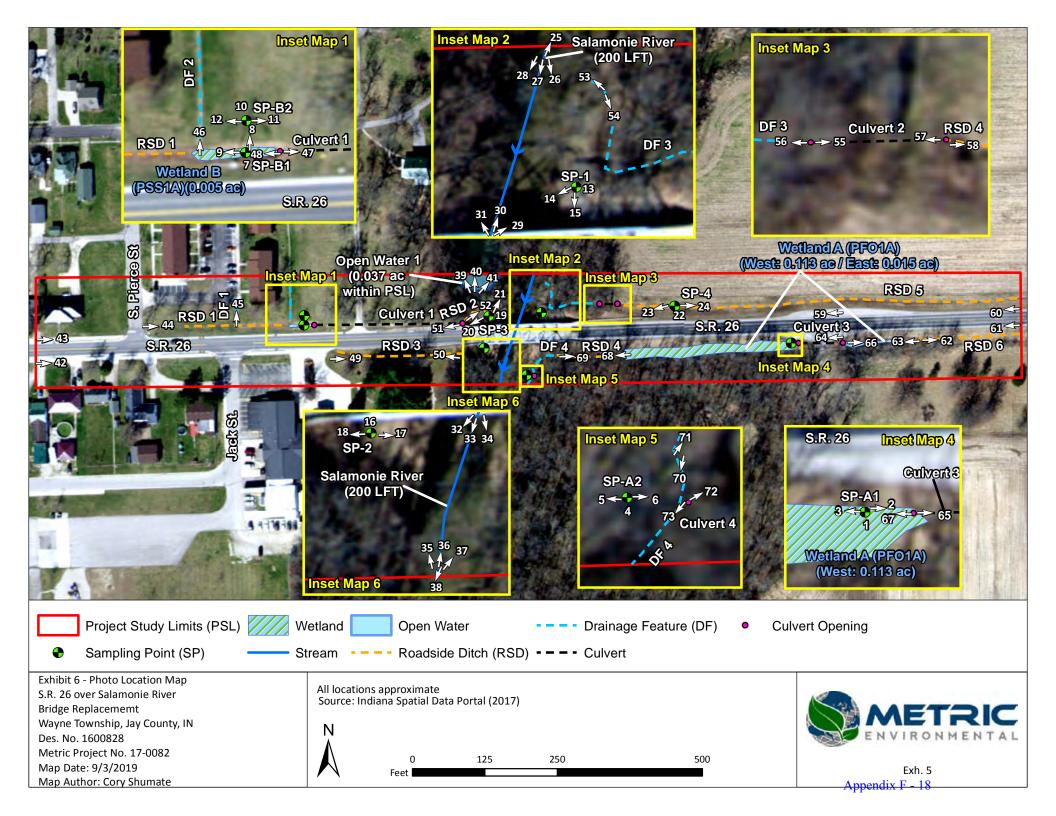
Source: Indiana Spatial Data Portal (2017)





Exh. 4







1. View of SP-A1, Wetland A, soil profile.



3. View of SP-A1, Wetland A, looking west.



2. View of SP-A1, Wetland A, looking east.



4. View of SP-A2, Wetland A upland, soil profile.





5. View of SP-A2, Wetland A upland, looking west.



7. View of SP-B1, Wetland B, soil profile.



6. View of SP-A2, Wetland A upland, looking east.



8. View of SP-B1, Wetland B, looking north.





9. View of SP-B1, Wetland B, looking west.



11. View of SP-B2, Wetland B upland, and Wetland B, looking east.



10. View of SP-B2, Wetland B upland, soil profile.



12. View of SP-B2, Wetland B upland, Wetland B, Roadside Ditch (RSD) 1, and Drainage Feature (DF) 2, looking west.





13. View of SP-1, upland sampling point 1, soil profile.



15. View of SP-1, upland sampling point 1, looking south.



14. View of SP-1, upland sampling point 1, looking southwest.



16. View of SP-2, upland sampling point 2, soil profile.





17. View of SP-2, upland sampling point 2, looking east.



19. View of SP-3, upland sampling point 3, soil profile.



18. View of SP-2, upland sampling point 2, looking west.



20. View of SP-3, upland sampling point 3, looking southwest.





21. View of SP-3, upland sampling point 3, and RSD 2, looking northeast.



23. View of SP-4, upland sampling point 4, and RSD 5, looking southwest.



22. View of SP-4, upland sampling point 4, soil profile.



24. View of SP-4, upland sampling point 4, and RSD 5, looking east.





25. View of Salamonie River from northern project study limits (PSL), looking northeast (upstream).



27. View of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from northern PSL, looking southwest (downstream).





26. View of eastern bank of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from northern PSL, looking southeast.



28. View of western bank of Salamonie River from northern PSL, looking southwest.





29. View of eastern bank of Salamonie River, looking northeast.



31. View of western bank of Salamonie River, looking northwest.



30. View of Salamonie River, looking northeast (upstream).



32. View of western bank of Salamonie River, looking southwest.





33. View of Salamonie River, looking southwest (downstream).



35. View of western bank of Salamonie River from southern PSL, looking northwest.



34. View of eastern bank of Salamonie River, looking southeast.



36. View of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from southern PSL, looking northeast (upstream).





37. View of eastern bank of Salamonie River and structure to be replaced (Bridge No. 026-38-03430 A/NIBI No. 007040) from southern PSL, looking northeast.



39. View of bank of Open Water 1, looking northwest.



38. View of Salamonie River from southern PSL, looking southwest (downstream).



40. View of Open Water 1, looking north.





41. View of bank of Open Water 1, looking northeast.



43. View of S.R. 26 ROW from western PSL, looking east.



42. View of S.R. 26 right-of-way (ROW) from western PSL, looking east.



44. View of S.R. 26 ROW, RSD 1, and DF 1, looking east.





45. View of DF 1, looking north.



47. From inlet (western end) of Culvert 1, view of Culvert 1, looking east.



46. View of DF 2, looking north.



48. View of Wetland A from Culvert 1, looking west.





49. View of S.R. 26 ROW and RSD 3, looking east.



51. From outlet (eastern end) of Culvert 1, view of Culvert 1, looking southwest.



50. View of S.R. 26 ROW and RSD 3, looking northwest.



52. View of RSD 2, looking northeast.





53. View of end of DF 3 which drains into Salamonie River, looking northwest.



55. View of Culvert 2 outlet, looking east.



54. View of DF 3 from where DF 3 drains into Salamonie River, looking southeast.



56. View of DF 3 from Culvert 2 outlet, looking west.





57. View of Culvert 2 inlet, looking west.



59. View of S.R. 26 ROW, looking west.



58. View of RSD 5 from Culvert 2 inlet, looking east.



60. View of S.R. 26 ROW and RSD 5 from eastern PSL, looking west.





61. View of S.R. 26 ROW and RSD 6 from eastern PSL, looking west.



63. View of Wetland A, looking west.



62. View of S.R. 26 ROW and RSD 6, looking east.



64. View of Culvert 3 inlet, looking west.





65. View of Culvert 3 outlet, looking east.



67. View of Wetland A West from Culvert 3 outlet, looking west.



66. View of Wetland A East from Culvert 3 inlet, looking east.



68. View of RSD 4, looking west.







69. View of RSD 4, looking east.



71. View of DF 4, looking northeast.



70. View of DF 4, looking southwest.



72. View of Culvert 4, looking northeast.





73. View of DF 4, looking southwest.



#### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Des 1600828 - S.R. 26 over Salamonie River		City/County:	Portland / Ja	ay County	Sampling Date: 8/28/2019
Applicant/Owner:	INDOT				State: IN	Sampling Point: SP-A1
Investigator(s):	Cory Shumate and Zachary Root		Sect	ion, Township	p, Range: Section 21, Townsh	ip 23 N, Range 14 E
Landform (hillslope	, terrace, etc.): Toe of Hillslope			Local re	elief (concave, convex, none):	Concave
Slope (%):	1% Lat: 40.4325		Long:		-84.96183	Datum: NAD83
Soil Map Unit Name						-
•	logic conditions on the site typical for this time of	•	Yes_		(If no, explain in Remark	
Are Vegetation	No , Soil No , or Hydrology No	-			ormal Circumstances" present?	
Are Vegetation	No , Soil No , or Hydrology No	-		,	ed, explain any answers in Rei	•
	FINDINGS Attach site map showing					res, etc.
Hydrophytic Vegeta Hydric Soil Present		No		Sampled Are a Wetland?		v No
Wetland Hydrology		No	WILLIIII	a wellanu :	165	x No
	) Sampling Point. Project study area received ov	ver an inch of ra	ain between 8/2	6/2019 and 8	3/27/2019.	
VEGETATION	Use scientific names of plants.				1	
Tree Chreature (Diet	eine. OOl se dies	Absolute	Dominant	Indicator	Danis Tank	
Tree Stratum (Plot 1. Juglans nigra	size: 30' radius )	% Cover 20%	Species? Yes	Status FACU	Dominance Test workshee	τ.
2.					Number of Dominant Species	S
3.					That Are OBL, FACW, or FA	C: 1 (A)
4					Total Novelean of Danis and	
5		20%	= Total Cover		Total Number of Dominant Species Across All Strata:	2 (B)
						(-/
Sapling/Shrub Stra	tum (Plot size: 15' radius )				Percent of Dominant Species	
					That Are OBL, FACW, or FA	C: <u>50%</u> (A/B)
2.						
4.					Prevalence Index workshee	et:
5.						
Llash Ctratura (Dist	. size. Streeting	0%	= Total Cover		Total % Cover of:	Multiply by:
Herb Stratum (Plot 1. Phalaris arundi	•	80%	Yes	FACW	OBL species 100%	x1 =2
2. Verbesina alter	nifolia	10%	No	FACW	FAC species	x3 =
3. Solidago gigan	tea	10%	No	FACW	FACU species 20%	x4 = 0.8
4					UPL species Column Totals: 1.20	x5 =  (A) 2.8 (B)
5. 6.		_			Column rotals. 1.20	(A)(B)
7.					Prevalence Index =	B/A = 2.33
8						
9. 10.					Hydrophytic Vegetation Inc	licatore:
11.					Tryurophytic vegetation inc	ilicators.
12.					1-Rapid Test for Hyd	drophytic Vegetation
13					2-Dominance Test is	
14 15.		_			X 3-Prevalence Index	is ≤3.0 aptations¹ (Provide supporting
40						on a separate sheet)
					Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
18					The disease of booking and and	atland budsalani. said
19. 20.					<sup>1</sup> Indicators of hydric soil and be present, unless disturbed	,
		100%	= Total Cover		be present, unless disturbed	or problematic.
Woody Vine Stratu	m (Plot size: 30' radius )				Hydrophytic	
1					Vegetation Present? Yes	Y No.
Ĺ		0%	= Total Cover		resent: fes	X No
Remarks: (Include	photo numbers here or on a separate sheet.)					
US Army Corps o	f Engineers					Wildwest Region version 2.0

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SOIL Sampling Point: SP-A1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Deptn	Matrix	%		edox Features	Tupo <sup>1</sup>	Loc <sup>2</sup>	Touturo	Domorko
(inches)	Color (moist)		Color (moist)		Type'		Texture	Remarks
0-11	10YR 3/1	85	5YR 3/4	15	C	PL	SiCL	Prominent redox concentrations.
11-20	10YR 3/1	80	10YR 5/8	15	<u> </u>	M	SiCL	Prominent redox concentrations.
			5YR 3/4	5	<u>C</u>	PL_		Prominent redox concentrations.
								_
<sup>1</sup> Type: C=C	oncentration, D=Deplet	ion, RM=Reduce	d Matrix, CS=Cove	red or Coated S	Sand Grains	. <sup>2</sup> Locatio	n: PL=Pore	Lining, M=Matrix.
Hydric Soil II	ndicators:					Indica	ators for Pro	blematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Sandy Gle	yed Matrix (S4)			Coast	Prairie Redox (A16)
Histic E	pipedon (A2)		Sandy Red	lox (S5)				langanese Masses (F12)
	istic (A3)		Stripped M					urface (S7)
	en Sulfide (A4)			cky Mineral (F1)				hallow Dark Surface (TF12)
	d Layers (A5)			yed Matrix (F2)			Other	(Explain in Remarks)
	uck (A10)	(0.4.4.)	Depleted N					
	d Below Dark Surface ark Surface (A12)	A11)		k Surface (F6) Dark Surface (F7	7)		<sup>3</sup> Indicators o	of hydrophytic vegetation and
	Mucky Mineral (S1)			oressions (F8)	' )			nydrophytic vegetation and nydrology must be present,
	ucky Peat or Peat (S3)		Redox Bel	7103310113 (1 0)				disturbed or problematic.
Restrictive L	ayer (if observed):							
Type:								
Depth (ii	nches):					Hydric S	Soil Present?	Yes x No
Remarks:								
HYDROL(	OGY rology Indicators:							
_	ators (minimum of one	is required: checl	( all that annly)				Secon	dary Indicators (minimum of two required)
	Water (A1)	is required. cricoi		ned Leaves (B9	3)			Surface Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa	•	.,			Orainage Patterns (B10)
Saturati				tic Plants (B14)				Dry-Season Water Table (C2)
Water N	Marks (B1)		Hydrogen	Sulfide Odor (C	1)			Crayfish Burrows (C8)
Sedime	nt Deposits (B2)		X Oxidized R	hizospheres on	Living Roo	ts (C3)		Saturation Visible on Aerial Imagery (C9)
Drift De	posits (B3)		Presence of	of Reduced Iron	(C4)		\$	Stunted or Stressed Plants (D1)
	at or Crust (B4)		Recent Iron	n Reduction in T	Γilled Soils (	C6)		Geomorphic Position (D2)
	posits (B5)			Surface (C7)			<sup>f</sup>	FAC-Neutral Test (D5)
	ion Visible on Aerial Im			Well Data (D9)				
Sparsel	y Vegetated Concave S	Surface (B8)	Other (Exp	lain in Remarks	5)			
Field Observ	ations:							
Surface Water	er Present?	Yes No X						
Water Table		Yes No _X						
Saturation Pr		Yes No _X	_ Depth (inche	es):	Wetland	d Hydrolog	y Present?	Yes <u>x</u> No
(includes cap	, , ,				· (')	- 11 - 1- 1		
Describe Re	corded Data (stream ga	luge, monitoring v	veii, aeriai pnotos,	previous inspec	ctions), if ava	aliable:		
Remarks:	t was loosted within -	andoida ditab Th	oroforo it moote th	o oritorio for	omorphia =	noition (DO)		
sampling poin	t was located within a i	oausiue ditch. Th	ererore, it meets th	ie cinteria for ge	omorpriic po	บรแบท (D2)	•	

US Army Corps of Engineers Midwest Region version 2.0

#### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Des 1600828 - S.R. 2	6 over Salamonie R	iver	City/County:	Portland / Ja	ay County		Sampling Dat	e: <u>8/28/2</u>	2019
Applicant/Owner:	INDOT					State:	IN	Sampling Poir	nt: SP-A2	2
Investigator(s):	Cory Shumate and Za	achary Root		Sect	ion, Township	p, Range: Section 2	1, Township	23 N, Range	14 E	
Landform (hillslope	, terrace, etc.): Terra	ce				elief (concave, conve	ex, none): <u>1</u>	None		
Slope (%):	0% Lat:	40.4323	6	Long:		-84.96347		Datum: NA	√D83	
Soil Map Unit Name	e: Eel clay loam	, frequently flooded (	Ee) - Hydric (5%)				NWI classifi	cation: PF	O1A	
Are climatic / hydro	logic conditions on the		-	_	X No	(If no, explain	in Remarks	.)		
Are Vegetation	No , Soil No	, or Hydrology	No significantly d	isturbed?	Are "No	rmal Circumstances	" present?	Yes >	<u>No</u>	
Are Vegetation	No , Soil No	, or Hydrology	No naturally prob	lematic?	(If need	ed, explain any ansv	vers in Rem	arks.)		
SUMMARY OF	FINDINGS Atta	ch site map sho	owing sampling	point loca	tions, tra	nsects, importa	nt featur	es, etc.		
Hydrophytic Vegeta		Yes X		Is the	Sampled Are	ea .				
Hydric Soil Present		Yes		within	a Wetland?		Yes	No	Х	
Wetland Hydrology	Present?	Yes X	No							
Remarks: Wetland A Upland	Sampling Point. Project	study area received	over an inch of rain	between 8/26	/2019 and 8/2	27/2019.				
VEGETATION	Use scientific n	ames of plants.								
			Absolute	Dominant	Indicator					
Tree Stratum (Plot		)	% Cover	Species?	Status	Dominance Test	worksheet:			
Celtis occident     Acer negundo	alis		40% 30%	Yes Yes	FAC FAC	Number of Domina	nt Species			
3. Morus alba			20%	Yes	FAC	That Are OBL, FAC	'		3	(A)
Maclura pomife	era		10%	No	FACU		,		<u></u>	_('')
5.						Total Number of D	ominant			
			100%	= Total Cover		Species Across All	Strata:	6	3	_(B)
Sanling/Shruh Stra	tum (Plot size: 15' ra	dius )				Percent of Domina	nt Species			
	tum (Flot size. 13 fa	·				That Are OBL, FAC		: 100	0%	(A/B)
2.						,	,	-		_( ' '
3.										
4						Prevalence Index	worksheet	:		
5			0%	= Total Cover		Total % Co	vor of:	Mul	Itiply by:	
Herb Stratum (Plot	t size: 5' radius	)	0 /6	= Total Cover		OBL species	20%	x1 =	0.2	_
Solidago gigan		<b>—</b> ′	50%	Yes	FACW	FACW species	50%	x2 =	1	_
2. Viola sororia			30%	Yes	FAC	FAC species	120%	x3 =	3.6	
3. Persicaria hydr	ropiperoides		20%	Yes	OBL	FACU species	10%	x4 =	0.4	
4. 5.						UPL species Column Totals:	2.00	x5 = (A)	5.2	(B)
6.						Column Totals.	2.00	(A)	5.2	— <sup>(B)</sup>
7.						Prevalenc	e Index = E	3/A =	2.60	
8. 9.										
10. 11.						Hydrophytic Vege	etation Indi	cators:		
12.						1-Rapid T	est for Hyd	rophytic Veget	ation	
13.						X 2-Domina				
14						X 3-Prevale				
15.								otations <sup>1</sup> (Prov on a separate :		orting
			— ——					on a separate : nytic Vegetatio	,	ain)
10							о, а. ор.	.yuo rogotatio	( <u>L</u> Apio	,
40						<sup>1</sup> Indicators of hydri	c soil and w	etland hydrolo	gy must	
20.						be present, unless	disturbed of	or problematic.		
			100%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' ra	dius )				Hydrophytic				
1.	<u> </u>	uius )				Vegetation				
2.						Present?	Yes	X No		
			0%	= Total Cover		1	_		_	
Demostra // L 1	whate worth and					1				
remarks: (Include	photo numbers here or	on a separate shee	ı. <i>)</i>							
US Army Corps of	f Engineers							Midwest R	egion ve	rsion 2.0

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SOIL Sampling Point: SP-A2

	ription: (Describe to t	ne depth needed			onfirm the a	bsence of	indicators.)	
Depth	Matrix			dox Features	<b>-</b> 1	. 2	<b>-</b> .	5 .
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20	10YR 4/2	100					SiCL	
	Concentration, D=Deplet	on, RM=Reduced	Matrix, CS=Covere	ed or Coated	Sand Grains.		on: PL=Pore Linin	ng, M=Matrix.  natic Hydric Soils <sup>3</sup> :
Hydric Soil			0	-1 M - (-1- (O 4)		inaic		•
Histoso				ed Matrix (S4)	1			rie Redox (A16)
	Epipedon (A2)		Sandy Redo					anese Masses (F12)
	Histic (A3)		Stripped Mar	` '			Dark Surface	` '
	en Sulfide (A4)			y Mineral (F1	-			ow Dark Surface (TF12)
	ed Layers (A5)			ed Matrix (F2)	)		Other (Exp	olain in Remarks)
	luck (A10)		Depleted Ma					
	ed Below Dark Surface (	A11)	Redox Dark	, ,			3	
	Dark Surface (A12)			rk Surface (F	7)			drophytic vegetation and
	Mucky Mineral (S1)		Redox Depre	essions (F8)			wetland hydro	ology must be present,
5 cm M	lucky Peat or Peat (S3)						unless dist	urbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (	inches):					Hydric	Soil Present?	Yes NoX
HYDROL	OGV							
_	drology Indicators: cators (minimum of one	is required: check	all that annly)				Secondary	Indicators (minimum of two required)
-	e Water (A1)	is required. cricen		ed Leaves (B	9)			ace Soil Cracks (B6)
	/ater Table (A2)		Aquatic Fau	•	0)			age Patterns (B10)
	tion (A3)			Plants (B14)	١			Season Water Table (C2)
	Marks (B1)			ulfide Odor (C				ish Burrows (C8)
	ent Deposits (B2)			izospheres o	*	's (C3)		ration Visible on Aerial Imagery (C9)
	eposits (B3)			Reduced Iron	-	.0 (00)		ed or Stressed Plants (D1)
	fat or Crust (B4)			Reduction in		C6)		norphic Position (D2)
	eposits (B5)		Thin Muck S		Tilled Colls (	00)		Neutral Test (D5)
	tion Visible on Aerial Im	ageny (B7)	Gauge or W				<u> </u>	redual rest (Bo)
	ly Vegetated Concave S			in in Remark	c)			
	ly vegetated concave c	difface (Bo)	Other (Expla	iii iii iteinaik	· · · · · · · · · · · · · · · · · · ·			
Field Observ	vations:							
Surface Wat	ter Present?	Yes No _X						
Water Table	Present?	Yes No _X	_ Depth (inches	):				
Saturation P	resent?	Yes No _X	_ Depth (inches	):	Wetland	l Hydrolog	y Present?	Yes <u>x</u> No
(includes ca	pillary fringe)							
Describe Re	ecorded Data (stream ga	uge, monitoring w	vell, aerial photos, p	revious inspe	ctions), if ava	ailable:		
D								
Remarks:	nt was located on a terra	ace within the O10	Officedalain of Sala	monie Rivor	Therefore it	meets the	criteria for goomo	rphic position (D2)
Jamping pol	was located till a tella	WIGHT THE CALL	o noodplain of Oala	oine itivel.	THOTOIOIG, IL	modia liie	omena ioi geoiilo	ipino position (DZ).

US Army Corps of Engineers Midwest Region version 2.0

#### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Des 1600828 - S.R. 26 over Sala	monie River	City/County:	Portland / Ja	ay County		Sampling Da	ate: 8/28/2	2019
Applicant/Owner:	INDOT				State:	IN	Sampling Po	int: SP-B	1
Investigator(s):	Cory Shumate and Zachary Root		Sect	ion, Township	o, Range: Section 2	1, Township	23 N, Range	e 14 E	
Landform (hillslope	, terrace, etc.): Drainage Ditch			Local re	elief (concave, conve	ex, none): <u>(</u>	Concave		
Slope (%):	2% Lat:	40.4326	Long:		-84.96485		Datum: N	AD83	
Soil Map Unit Name	e: Glynwood silt loam, grour	nd moraine, 1 to 4 percent s	opes, eroded (	GlgB2) - Hyd	ric (3%)	NWI classifi	ication: N	lone	
Are climatic / hydro	logic conditions on the site typical for	or this time of year?	Yes	X No	(If no, explain	in Remarks	i.)		
Are Vegetation	No , Soil No , or Hydro	ology No significantly d	isturbed?	Are "No	rmal Circumstances	" present?	Yes	X No	
Are Vegetation		ology No naturally prob			ed, explain any ansv				
SUMMARY OF	FINDINGS Attach site m	ap showing sampling	g point loca	tions, trar	nsects, importa	nt featur	es, etc.		
Hydrophytic Vegeta	_	X No		Sampled Are	ea				
Hydric Soil Present	_	X No	within	a Wetland?		Yes x	No		
Wetland Hydrology	Present? Yes	X No							
Remarks: Wetland B (PSS1A	) Sampling Point. Project study area	a received over an inch of ra	ain between 8/2	6/2019 and 8	3/27/2019.				
<b>VEGETATION</b>	Use scientific names of p	plants.							
		Absolute	Dominant	Indicator					
Tree Stratum (Plot	size: 30' radius )	% Cover	Species?	Status	Dominance Test	worksheet:			
1. 2.					Number of Domina	ant Species			
3.					That Are OBL, FAC			3	(A)
4.									
5					Total Number of D				
		0%	= Total Cover		Species Across All	l Strata:		4	(B)
Sapling/Shrub Stra	tum (Plot size: 15' radius )				Percent of Domina	nt Species			
Fraxinus penns		30%	Yes	FACW	That Are OBL, FAC		): 7	5%	(A/B)
2. Juglans nigra		10%	Yes	FACU			•		
3									
4. 5.					Prevalence Index	worksheet	:		
5		40%	= Total Cover		Total % Co	ver of:	Mı	ultiply by:	
Herb Stratum (Plot	: size: 5' radius )				OBL species	80%	x1 =	0.8	
1. Typha latifolia		50%	Yes	OBL	FACW species	50%	x2 =	1	
2. Eupatorium per		30%	Yes	OBL	FAC species	2001	x3 =		
<ol> <li>Asclepias syria</li> <li>Solidago gigan</li> </ol>		20%	No No	FACU FACW	FACU species UPL species	30%	x4 = x5 =	1.2	
5.	lea	2076	INU	FACV	Column Totals:	1.60	(A) =	3	(B)
6.					_		` ′ _		``
7.					Prevalenc	ce Index = E	B/A =	1.88	
8									
9. 10.					Hydrophytic Vege	atation Indi	cators:		
11.					Trydrophytic vege	station indi	cators.		
12.					1-Rapid T	est for Hyd	rophytic Vege	atation	
13					X 2-Domina				
14.					X 3-Prevale		s ≤3.0 ' ptations¹ (Pro	:	
15. 16.							ptations (Pro on a separate		orting
							nytic Vegetati	,	ain)
10									
					<sup>1</sup> Indicators of hydri		•	••	
20		1000/	T-1-1-0		be present, unless	disturbed of	or problemation	<b>&gt;</b> .	
		120%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius )				Hydrophytic				
1.					Vegetation				
2.					Present?	Yes	X No		
		0%	= Total Cover						
Remarks: (Include	photo numbers here or on a separa	ate sheet )							
, inolado	,	····· -······,							
L									
US Army Corps o	ī ∟ngineers	<del>-</del>					iviiawest	Region ve	ersion 2.0

Appendix F - 42

SOIL Sampling Point: SP-B1

Depth (inches)         Matrix (concess)         Redox Features           0-9         10YR 4/2         75         10YR 5/3         15         C         M         SiCL           7.5YR 5/8         10         C         M         M	
0-9         10YR 4/2         75         10YR 5/3         15         C         M         SiCL           7.5YR 5/8         10         C         M	
7.5YR 5/8 10 C M	Remarks
	Faint redox concentrations
	Prominent redox concentrations
9-20 10YR 4/2 70 10YR 5/3 30 C M SiCL	Faint redox concentrations
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Por	re Lining, M=Matrix.
Hydric Soil Indicators: Indicators for Pr	roblematic Hydric Soils <sup>3</sup> :
<del></del>	st Prairie Redox (A16)
<del></del>	-Manganese Masses (F12)
	Surface (S7)
<del>_</del>	Shallow Dark Surface (TF12)
	er (Explain in Remarks)
2 cm Muck (A10) X Depleted Matrix (F3)	
Depleted Below Dark Surface (A11)  Redox Dark Surface (F6)  Thick Dark Surface (A12)  Populated Dark Surface (F7)  3Indicators	of hydrophytic vegetation and
	s of hydrophytic vegetation and
	d hydrology must be present, ss disturbed or problematic.
	as disturbed of problematic.
Restrictive Layer (if observed):	
Type:	War was Na
Depth (inches): Hydric Soil Preser	nt? Yes <u>x</u> No
HYDROLOGY	
Wetland Hydrology Indicators:	
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sector	ondary Indicators (minimum of two required)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sector         Surface Water (A1)       Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)     Secondary       Surface Water (A1)     Water-Stained Leaves (B9)       High Water Table (A2)     Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)     Secondary       Surface Water (A1)     Water-Stained Leaves (B9)       High Water Table (A2)     Aquatic Fauna (B13)       X     Saturation (A3)       True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)     Second       Surface Water (A1)     Water-Stained Leaves (B9)       High Water Table (A2)     Aquatic Fauna (B13)       X Saturation (A3)     True Aquatic Plants (B14)       Water Marks (B1)     Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Wetland Hydrology Indicators:       Primary Indicators (minimum of one is required: check all that apply)     Sector       Surface Water (A1)     Water-Stained Leaves (B9)       High Water Table (A2)     Aquatic Fauna (B13)       X Saturation (A3)     True Aquatic Plants (B14)       Water Marks (B1)     Hydrogen Sulfide Odor (C1)       Sediment Deposits (B2)     Oxidized Rhizospheres on Living Roots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Secondary         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Second         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Second         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sector         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sector         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sector         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)     Field Observations:  Surface Water Present?  Yes No X Depth (inches):  Water Table Present?  Yes No X Depth (inches):  Saturation Present?  Yes X No Depth (inches):  O Wetland Hydrology Present?	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)
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Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sect         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)     Field Observations:  Surface Water Present?  Yes No X Depth (inches):  Saturation Present?  Yes No X Depth (inches):  Gincludes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sect         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?         Water Table Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?         Gincludes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:         Primary Indicators (minimum of one is required: check all that apply)       Sect         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         X Saturation (A3)       True Aquatic Plants (B14)         Water Marks (B1)       Hydrogen Sulfide Odor (C1)         Sediment Deposits (B2)       Oxidized Rhizospheres on Living Roots (C3)         Drift Deposits (B3)       Presence of Reduced Iron (C4)         Algal Mat or Crust (B4)       Recent Iron Reduction in Tilled Soils (C6)       X         Iron Deposits (B5)       Thin Muck Surface (C7)       X         Inundation Visible on Aerial Imagery (B7)       Gauge or Well Data (D9)         Sparsely Vegetated Concave Surface (B8)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?         Water Table Present?       Yes       No       X       Depth (inches):       Wetland Hydrology Present?         Saturation Present?       Yes       No       Depth (inches):       Wetland Hydrology Present?         Gincludes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: <td>Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)</td>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)

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#### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Des 1600828 - S.R. 26 over Salamonie River		City/County:	Portland / Ja	y County	Sampling Date: 8/28/2019
Applicant/Owner:	INDOT				State: IN	Sampling Point: SP-B2
Investigator(s):	Cory Shumate and Zachary Root		Sect	ion, Township	o, Range: Section 21, Townshi	p 23 N, Range 14 E
Landform (hillslope,	terrace, etc.): Top of hillslope			Local re	elief (concave, convex, none):	None
	· · · · · · · · · · · · · · · · · · ·		Long:		-84.96484	Datum: NAD83
Soil Map Unit Name						-
·	logic conditions on the site typical for this time of ye		•		· /	-
Are Vegetation	No , Soil No , or Hydrology No s		_		rmal Circumstances" present?	
Are Vegetation	No , Soil No , or Hydrology No I				ed, explain any answers in Rer	
•	FINDINGS Attach site map showing				* *	,
						es, etc.
Hydrophytic Vegeta Hydric Soil Present				Sampled Are a Wetland?		No. v
Wetland Hydrology		$\frac{\lambda}{X}$	WILLIIII	a wellanu i	Yes	No <u>x</u>
Remarks: Wetland B Unland 9	Sampling Point. Project study area received over a	an inch of rain	hetween 8/26	/2019 and 8/2	27/2019	
Wotana B Opiana	sampling Found Froject clady area received ever c	arr in torr or rain	1 501110011 0/20/	2010 4114 6/2	172010.	
VEGETATION	Use scientific names of plants.					
	•	Absolute	Dominant	Indicator		
Tree Stratum (Plot	size: 30' radius )	% Cover	Species?	Status	Dominance Test worksheet	:
1						
2					Number of Dominant Species	
3					That Are OBL, FACW, or FAC	C: <u> </u>
4. 5.					Total Number of Dominant	
J		0%	= Total Cover		Species Across All Strata:	2 (B)
			- 10101 00101		oposios / toroso / til otrata.	(5)
Sapling/Shrub Strat	um (Plot size: 15' radius )				Percent of Dominant Species	<b>;</b>
1					That Are OBL, FACW, or FAC	C:(A/B)
2.						
3.						
4					Prevalence Index workshee	t:
5			Total Carray		Total 0/ Carran of	N.A. alatina la c. lass sa
Herb Stratum (Plot	size: 5' radius )	0%	= Total Cover		Total % Cover of: OBL species	Multiply by: x1 =
Festuca rubra	size. <u>S faulus</u> )	50%	Yes	FACU	FACW species	x2 =
Trifolium prater	ose	50%	Yes	FACU	FAC species	x3 =
3.					FACU species 100%	x4 = 4
4.					UPL species	x5 =
5					Column Totals: 1.00	(A) 4 (B)
6.					Daniel and Jane	D/A 4.00
7. 8.					Prevalence Index =	B/A = 4.00
9.						
10.					Hydrophytic Vegetation Ind	licators:
11.						
12.					1-Rapid Test for Hyd	Irophytic Vegetation
13.					2-Dominance Test is	
14					3-Prevalence Index	
						iptations <sup>1</sup> (Provide supporting
16.						on a separate sheet)
17. 18.					Froblematic hydrop	hytic Vegetation <sup>1</sup> (Explain)
19.					<sup>1</sup> Indicators of hydric soil and v	vetland hydrology must
20.					be present, unless disturbed	·
		100%	= Total Cover			· 
Woody Vine Stratur	m (Plot size: 30' radius )				Hydrophytic	
1					Vegetation	
2			<del></del>		Present? Yes	No X
		0%	= Total Cover			
Remarks: (Include	photo numbers here or on a separate sheet.)				l	
The state of the s	, and a sopulate entotil					
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SOIL Sampling Point: SP-B2

	cription: (Describe to t	ne depth needed			onfirm the a	bsence of ir	ndicators.)			
Depth	Matrix	<del></del>		dox Features	_ 1	. 2	_	_		
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks	
0-20	10YR 5/1	50					SiCL	Mixed N	Matrix	
	10YR 5/2	50								
				·						
1Typo: C=C	Concentration, D=Deplet	on PM-Poduco	Matrix CS_Covere	od or Coatod	Sand Grains	<sup>2</sup> Location	· DI –Doro Lin	ing, M=Matrix.		
Hydric Soil		on, Kwi–Keduce	i Matrix, CO-Covere	tu or Coaleu (	Janu Grains.			ematic Hydric Soils <sup>3</sup>		
Histose			Sandy Gleve	ed Matrix (S4)		maioat		airie Redox (A16)	_	
	Epipedon (A2)		Sandy Redo			-		ganese Masses (F12	<b>)</b>	
	Histic (A3)		Stripped Ma			-	Dark Surf	-	-/	
	gen Sulfide (A4)			ky Mineral (F1	)	-		llow Dark Surface (TI	=12)	
	ed Layers (A5)			ed Matrix (F2)	-	-		xplain in Remarks)	,	
	/luck (A10)		Depleted Ma			-		rpiaiii iii rioiiiaiiio)		
	ed Below Dark Surface (	A11)		Surface (F6)						
	Dark Surface (A12)	,		rk Surface (F	7)	3	Indicators of h	ydrophytic vegetatior	n and	
	Mucky Mineral (S1)		Redox Depre	•	.,			Irology must be prese		
	Mucky Peat or Peat (S3)			(, ,			-	sturbed or problemati		
	Layer (if observed):									
Type:	(inches):					Uvdria Ca	oil Present?	Yes	No	v
Бериі (		_				riyuric 30	on Fresent:	163		X
HYDROL	.OGY									
Wetland Hy	drology Indicators:									
Primary Indi	cators (minimum of one	is required: check	call that apply)				Secondar	y Indicators (minimu	m of two requir	ed)
Surfac	e Water (A1)		Water-Stain	ed Leaves (B	9)		Sur	face Soil Cracks (B6	)	
High W	Vater Table (A2)		Aquatic Fau					inage Patterns (B10)		
	tion (A3)			Plants (B14)				-Season Water Table	e (C2)	
	Marks (B1)		· ·	ulfide Odor (C	•			yfish Burrows (C8)		
	ent Deposits (B2)			izospheres or		s (C3)		uration Visible on Ae		(9)
	eposits (B3)			Reduced Iron	` '			nted or Stressed Pla	. ,	
	Mat or Crust (B4)			Reduction in	Tilled Soils (0	26)		omorphic Position (D	2)	
	eposits (B5)	(5-)	Thin Muck S				FAC	C-Neutral Test (D5)		
	ation Visible on Aerial Im	. , ,		ell Data (D9)	,					
Sparse	ely Vegetated Concave S	iurface (B8)	Other (Expla	in in Remark	S)					
Field Obser	vations:									
Surface Wa	ter Present?	Yes No _X	Depth (inches	):						
Water Table	Present?	Yes No X	Depth (inches	):						
Saturation F	Present?	Yes No X	Depth (inches	):	Wetland	Hydrology	Present?	Yes	No	Χ
(includes ca	pillary fringe)									
Describe Re	ecorded Data (stream ga	uge, monitoring v	vell, aerial photos, p	revious inspe	ctions), if ava	ilable:				
_										
Remarks:										

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#### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Des 1600828 - S.R. 26 over Salamonie River		City/County:	Portland / Ja	ay County	Sampling Date: 8/28/2019
Applicant/Owner:	INDOT				State: IN	Sampling Point: SP-1
Investigator(s):	Cory Shumate and Zachary Root		Sect	ion, Townshi	p, Range: Section 21, Townsh	ip 23 N, Range 14 E
Landform (hillslope	, terrace, etc.): Terrace			Local	relief (concave, convex, none):	None
Slope (%):	0% Lat: 40.43266		Long:		-84.96338	Datum: NAD83
Soil Map Unit Name	Eel clay loam, frequently flooded (Ee) -	Hydric (5%)			NWI class	ification: None
Are climatic / hydro	logic conditions on the site typical for this time of y	year?	Yes_	X No	(If no, explain in Remark	(S.)
Are Vegetation	No , Soil No , or Hydrology No			Are "No	ormal Circumstances" present?	Yes <u>X</u> No
Are Vegetation	No , Soil No , or Hydrology No			,	led, explain any answers in Re	*
SUMMARY OF	FINDINGS Attach site map showin	g sampling	g point loca	tions, tra	nsects, important featu	res, etc.
Hydrophytic Vegeta				Sampled Are		
Hydric Soil Present			within	a Wetland?	Yes	No <u>x</u>
Wetland Hydrology	Present? Yes X N	<u> </u>				
Remarks:	oint 1. Project study area received over an inch o	ıf rain hetweer	n 8/26/2019 and	4 8/27/2019		
Opiana Gampiing i	ont 1.1 Toject study area received over all mon o	i iaiii betweei	10/20/2015 and	3 0/21/2013.		
VEGETATION	Use scientific names of plants.					
		Absolute	Dominant	Indicator		
Tree Stratum (Plot		% Cover	Species?	Status	Dominance Test workshee	t:
Crataegus pha     Acer negundo	enopyrum	20%	Yes Yes	FAC FAC	Number of Dominant Specie	0
3.		2076	165	FAC	That Are OBL, FACW, or FA	
4.						
5.					Total Number of Dominant	
		40%	= Total Cover		Species Across All Strata:	(B)
Sanling/Shrub Stra	tum (Plot size: 15' radius )				Percent of Dominant Specie	e
1.	(1 lot size. 13 ladius )				That Are OBL, FACW, or FA	
2.					, , , , ,	
3.						
4					Prevalence Index workshee	et:
5		0%	= Total Cover		Total % Cover of:	Multiply by:
Herb Stratum (Plot	size: 5' radius )	070	- Total Cover		OBL species	x1 =
1. Phalaris arundi		80%	Yes	FACW	FACW species 80%	x2 = 1.6
2. Ambrosia trifida	9	20%	Yes	FAC	FAC species 60%	x3 = 1.8
3					FACU species  UPL species	x4 =
4. 5.					Column Totals: 1.40	x5 =(A) 3.4 (B)
6.						
7.					Prevalence Index =	B/A = 2.43
8						
9. 10.					Hydrophytic Vegetation In-	dicators:
11.					Trydrophytic vegetation in	dicators.
12.					1-Rapid Test for Hy	drophytic Vegetation
13.					X 2-Dominance Test	
14.					X 3-Prevalence Index	
15. 16.						aptations <sup>1</sup> (Provide supporting on a separate sheet)
17.						ohytic Vegetation <sup>1</sup> (Explain)
18.						
19.					<sup>1</sup> Indicators of hydric soil and	wetland hydrology must
20		4000/	<del></del>		be present, unless disturbed	or problematic.
		100%	= Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius )				Hydrophytic	
1.					Vegetation	
2.					Present? Yes	XNo
		0%	= Total Cover			
Pemarka: /laaluda	photo numbers here or on a separate sheet.)					
include	prioto numbers here or on a separate sneet.)					
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SOIL Sampling Point: SP-1

Depth	Matrix			Redox Features				
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20	10YR 4/2	100					SiCL	
						2		
71	oncentration, D=Deplet	on, RM=Red	uced Matrix, CS=Co	vered or Coated	Sand Grains.		on: PL=Pore Li	<u>.</u>
dric Soil Ir			0	Name of Marketin (O.4		Indic		ematic Hydric Soils <sup>3</sup> :
_ Histosol				Gleyed Matrix (S4)	·)			rairie Redox (A16)
	pipedon (A2)			Redox (S5)				nganese Masses (F12)
_	istic (A3)			d Matrix (S6)	1)			face (S7)
<b>_</b>	en Sulfide (A4) d Layers (A5)			Mucky Mineral (F	-			allow Dark Surface (TF12)
				Gleyed Matrix (F2	<del>(</del> )		Other (E	explain in Remarks)
	ıck (A10) d Below Dark Surface (	(111)		d Matrix (F3)				
	а веюж дагк Surface ( ark Surface (A12)	AII)		Dark Surface (F6) d Dark Surface (F			3Indicators of I	nydrophytic vegetation and
	Mucky Mineral (S1)			o Dark Surface (F Depressions (F8)	-1)			drology must be present,
	ucky Peat or Peat (S3)		Redux I	repressions (Fo)			-	isturbed or problematic.
							uniess u	sturbed of problematic.
	ayer (if observed):							
Type:								
Deptii (ii	iches).					myaric .	Son Present?	
Depth (ir	ucites).		-			Hydric :	Soil Present?	Yes No>
marks:						Hydric	Soli Fresent?	Yes No>
marks:	OGY					nyunc	Soli Fresent?	
marks: YDROLC etland Hyd	OGY rology Indicators:					nyunc		
marks:  YDROLC etland Hydrimary Indic	OGY rology Indicators: ators (minimum of one	is required: c	11.7/			nyunc	Seconda	ry Indicators (minimum of two require
YDROLO etland Hydrimary Indic Surface	OGY rology Indicators: ators (minimum of one Water (A1)	is required: c	Water-S	Stained Leaves (B	39)	nyunc	Seconda	ry Indicators (minimum of two require
YDROLO etland Hyd rimary Indic Surface High Wa	OGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2)	is required: c	Water-S Aquatic	Fauna (B13)	,	nyunc	SecondaSu	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10)
YDROLO etland Hyd imary Indic Surface High Wa Saturati	OGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3)	is required: c	Water-S Aquatic True Aq	Fauna (B13) uatic Plants (B14	1)	nyunc	Seconda Su Drs	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) <i>r</i> -Season Water Table (C2)
YDROLO etland Hyd rimary Indic Surface High Wa Saturati Water M	orology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1)	is required: c	Water-S Aquatic True Aq Hydroge	Fauna (B13) Juatic Plants (B14 en Sulfide Odor (C	i) C1)		Seconda Su Dra Dra	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8)
YDROLO etland Hyd imary Indic Surface High Wa Saturati Water M Sedimel	Pology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)	is required: c	Water-S Aquatic True Aq Hydroge Oxidized	Fauna (B13) juatic Plants (B14 en Sulfide Odor (C d Rhizospheres o	l) C1) on Living Root		Seconda Su Dra Dry Cra	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS
YDROLO etland Hydrimary Indic Surface High Water M Sedimen Drift De	or o	is required: c	Water-S Aquatic True Aq Hydroge Oxidizer	Fauna (B13) uatic Plants (B14 en Sulfide Odor (0 d Rhizospheres o ce of Reduced Iro	l) C1) on Living Root on (C4)	s (C3)	Seconda Su Dra Dra Cra Sa	ry Indicators (minimum of two require face Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
YDROLO etland Hydrimary Indic Surface High Wa Saturati Water M Sedimen Drift Del Algal Ma	or Crust (B4)	is required: c	Water-S Aquatic True Aq Hydroge Oxidizer Presence Recent	Fauna (B13) uatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in	l) C1) on Living Root on (C4)	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2)
YDROLO etland Hydrimary Indice Surface High Water M Sedimer Drift Der Algal Ma	or Crust (B4) posits (B5)  OGY  Prology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	·	Water-S Aquatic True Aq Hydroge Oxidizer Presenc Recent Thin Mu	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7)	I) C1) on Living Root on (C4) Tilled Soils (	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require face Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) unted or Stressed Plants (D1)
YDROLO etland Hydrimary Indic Surface High Water M Sedimer Drift Der Algal Ma Iron Dep Inundati	or visible on Aerial Im	agery (B7)	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu Gauge 6	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in ick Surface (C7) or Well Data (D9)	(i) C1) on Living Root on (C4) Tilled Soils (i	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2)
YDROLO etland Hyd rimary Indic Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Dep Inundati	or Crust (B4) posits (B5)  OGY  Prology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	agery (B7)	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu Gauge 6	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7)	(i) C1) on Living Root on (C4) Tilled Soils (i	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2)
YDROLO etland Hyd rimary Indic Surface High Wa Saturati Water M Sedimee Drift Del Algal Ma Iron Deg Inundati Sparsel	or Crust (B4) posits (B5) on Visible on Aerial Im. or Vegetated Concave S	agery (B7)	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu Gauge 6	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in ick Surface (C7) or Well Data (D9)	(i) C1) on Living Root on (C4) Tilled Soils (i	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9 unted or Stressed Plants (D1) omorphic Position (D2)
YDROLO  Yetland Hyd rimary Indic Surface High Wa Saturati Water M Sedimen Drift Del Algal Ma Iron Dep Inundati Sparsel	or Crust (B4) posits (B5) on Visible on Aerial Imparts (Vegetated Concave Seatons:	agery (B7) Surface (B8)	Water-S Aquatic True Aq Hydroge Oxidizer Presend Recent Thin Mu Gauge 6	Fauna (B13) uatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7) or Well Data (D9) Explain in Remark	(i) C1) on Living Root on (C4) Tilled Soils (i	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) anted or Stressed Plants (D1) omorphic Position (D2)
YDROLO etland Hyd rimary Indic Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsel	or Crust (B4) posits (B5) on Visible on Aerial Impay Vegetated Concave Ser Present?	agery (B7) Surface (B8)	Water-S Aquatic True Aq Hydroge Oxidizer Presence Recent Thin Mu Gauge of Other (E	Fauna (B13) uatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7) or Well Data (D9) Explain in Remark	(i) C1) on Living Root on (C4) Tilled Soils (i	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2)
YDROLO etland Hyd rimary Indic Surface High Wa Saturati Water M Sedimer Drift Der Algal Ma Iron Der Inundati Sparsel eld Observ urface Water /ater Table	or visible on Aerial Impay Vegetated Concave Ser Present?	agery (B7) Surface (B8)  Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidizer Presence Recent Thin Mu Gauge of Other (E	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7) or Well Data (D9) explain in Remark ches):	(C1) C1) C1) Cn Living Root C4) Tilled Soils (C4) (C5)	s (C3)	Seconda Su Dra Dra Cra Sa Stu X Ge	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) /-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2)
YDROLO  Vetland Hyd  Irimary Indic  Surface  High Wa  Saturati  Water M  Sedimen  Drift Dep  Algal Ma  Iron Dep  Inundati  Sparsely  Seld Observiturface Water  Vater Table  iaturation Pr	or visible on Aerial Impay Vegetated Concave Seators:  The present?  DGY  Tology Indicators:  ators (minimum of one one of one	agery (B7) Surface (B8)  Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidizer Presence Recent Thin Mu Gauge of Other (E	Fauna (B13) uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in uck Surface (C7) or Well Data (D9) explain in Remark ches):	(C1) C1) C1) Cn Living Root C4) Tilled Soils (C4) (C5)	s (C3)	Seconda Su Dra Dry Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
YDROLO    etland Hydrimary Indice	or visible on Aerial Impay Vegetated Concave Seators:  The present?  DGY  Tology Indicators:  ators (minimum of one one of one	agery (B7) Surface (B8)  Yes No Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu Gauge of Other (E  X Depth (ind X Depth (ind	Fauna (B13)  Juatic Plants (B14)  en Sulfide Odor (C)  d Rhizospheres of Reduced Iron  Iron Reduction in lick Surface (C7)  or Well Data (D9)  Explain in Remark  Ches):	(S)  Wetland	s (C3) C6)	Seconda Su Dra Dry Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (Cs unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
YDROLO  Vetland Hyd  Irimary Indic  Surface  High Wa  Saturati  Water M  Sedimer  Drift Der  Algal Ma  Iron Der  Inundati  Sparsely  Seld Observet  Surface Water  Vater Table  Saturation Pr  ncludes cap	or variable (A2) on (A3) larks (B1) on to Deposits (B2) on visible on Aerial Im y Vegetated Concave Ser Present? esent? ester Visible on Aerial Im y Vegetated Concave Ser Present? esent?	agery (B7) Surface (B8)  Yes No Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu Gauge of Other (E  X Depth (ind X Depth (ind	Fauna (B13)  Juatic Plants (B14)  en Sulfide Odor (C)  d Rhizospheres of Reduced Iron  Iron Reduction in lick Surface (C7)  or Well Data (D9)  Explain in Remark  Ches):	(S)  Wetland	s (C3) C6)	Seconda Su Dra Dry Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (Cs unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
YDROLO  Vetland Hyd  Irimary Indic  Surface  High Wa  Saturati  Water M  Sedimer  Drift Der  Algal Ma  Iron Der  Inundati  Sparsely  Vetland Observer  Vetla	or variable (A2) on (A3) larks (B1) on to Deposits (B2) on visible on Aerial Im y Vegetated Concave Ser Present? esent? ester Visible on Aerial Im y Vegetated Concave Ser Present? esent?	agery (B7) Surface (B8)  Yes No Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu Gauge of Other (E  X Depth (ind X Depth (ind	Fauna (B13)  Juatic Plants (B14)  en Sulfide Odor (C)  d Rhizospheres of Reduced Iron  Iron Reduction in lick Surface (C7)  or Well Data (D9)  Explain in Remark  Ches):	(S)  Wetland	s (C3) C6)	Seconda Su Dra Dry Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
YDROLO  [etland Hyd rimary Indic Surface High Wa Saturati Water M Sedimee Drift De Algal Ma Iron Dep Inundati Sparsel:  eld Observ. urface Wate //ater Table aturation Pr ncludes cap	Present?  Prology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Im y Vegetated Concave S  ations: ar Present? Present? esent?	agery (B7) Surface (B8)  Yes No Yes No Yes No	Water-S Aquatic True Aq Hydroge Oxidized Presend Recent Thin Mu Gauge of Other (E  X Depth (ind X Depth (ind	Fauna (B13)  Juatic Plants (B14)  en Sulfide Odor (C)  d Rhizospheres of Reduced Iron  Iron Reduction in lick Surface (C7)  or Well Data (D9)  Explain in Remark  Ches):	(S)  Wetland	s (C3) C6)	Seconda Su Dra Dry Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (CS unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)
YDROLO  Vetland Hyd  Irimary Indic Surface High Wa Saturati Water M Sedimee Drift Dee Algal Ma Iron Dee Inundati Sparsele Vater Table Vate	DGY rology Indicators: ators (minimum of one Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial Improved the ser Present? er Present? erent? esent? esent? illary fringe) corded Data (stream gas	agery (B7) Surface (B8)  Yes No Yes No Yes No suge, monitori	Water-S Aquatic True Aq Hydroge Oxidized Presence Recent Thin Mu Gauge o Other (E  X Depth (inc X Depth (inc) X Depth (inc)	Fauna (B13)  uuatic Plants (B14 en Sulfide Odor (C d Rhizospheres o ce of Reduced Iro Iron Reduction in lick Surface (C7) or Well Data (D9) Explain in Remark  ches): ches): cs, previous inspe	wetland	s (C3) C6) I Hydrolog	Seconda Su Dra Dra Cra Sa Stu X Ge X FA	ry Indicators (minimum of two require rface Soil Cracks (B6) ainage Patterns (B10) y-Season Water Table (C2) ayfish Burrows (C8) turation Visible on Aerial Imagery (Cs unted or Stressed Plants (D1) omorphic Position (D2) C-Neutral Test (D5)

US Army Corps of Engineers Midwest Region version 2.0

### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site: Des 1600828 - S.R. 26 over Salamonie River				City/County: Portland / Jay County Sampling Date: 8/28/2019				
Applicant/Owner:	cant/Owner: INDOT State:						Sampling Point: SP-2	
Investigator(s):	Cory Shumate and Zachary	Root		Sect	ion, Township	o, Range: Section 21, Townsh	ip 23 N, Range 14 E	
Landform (hillslope	, terrace, etc.): Terrace				Local re	elief (concave, convex, none):	None	
Slope (%):	1% Lat:	40.43249		Long:		-84.96373	Datum: NAD83	
Soil Map Unit Name	e: Eel clay loam, freque	ently flooded (Ee) -	Hydric (5%)			NWI classi	ification: None	
Are climatic / hydro	logic conditions on the site type	cal for this time of y	ear?	Yes	No_	(If no, explain in Remark	s.)	
Are Vegetation		Hydrology No	-		Are "No	rmal Circumstances" present?	Yes X No	
Are Vegetation	No , Soil No , or	Hydrology No	naturally prob	lematic?	(If need	ed, explain any answers in Rer	marks.)	
SUMMARY OF	FINDINGS Attach sit	e map showin	g samplin	g point loca	tions, trar	nsects, important featu	res, etc.	
Hydrophytic Vegeta	ation Present? Y	es X N			Sampled Are	a		
Hydric Soil Present			0 X	within	a Wetland?	Yes	No x	
Wetland Hydrology	Present? Y	es X N	°					
Remarks: Upland Sampling P	oint 2. Project study area rece	ived over an inch o	f rain betweer	n 8/26/2019 and	d 8/27/2019.			
VEGETATION	Use scientific names	of plants.						
			Absolute	Dominant	Indicator			
Tree Stratum (Plot	size: 30' radius )		% Cover	Species?	Status	Dominance Test workshee	t:	
1. 2.						Number of Dominant Species	s	
3.						That Are OBL, FACW, or FA		
4.								
5.						Total Number of Dominant		
			0%	= Total Cover		Species Across All Strata:	(B)	
Sapling/Shrub Stra	tum (Plot size: 15' radius	)				Percent of Dominant Species	3	
4	(* 101 0) <u>10 10010</u>	<b>—</b> ′				That Are OBL, FACW, or FA		
2.								
3								
4. 5.						Prevalence Index workshee	t:	
J			0%	= Total Cover		Total % Cover of:	Multiply by:	
Herb Stratum (Plot	size: 5' radius )					OBL species	x1 =	
1. Phalaris arundi	nacea		80%	Yes	FACW	FACW species 80%	x2 = 1.6	
2. Ambrosia trifida	9		20%	Yes	FAC	FAC species 20%	x3 = 0.6	
3. 4.						FACU species UPL species	x4 = x5 =	
5.						Column Totals: 1.00	(A) 2.2 (B)	
6.								
7.						Prevalence Index =	B/A = 2.20	
8.								
9. 10.						Hydrophytic Vegetation Inc	licators:	
11.						Tryurophytic vegetation inc	ilcators.	
12.						1-Rapid Test for Hyd	drophytic Vegetation	
13.						X 2-Dominance Test is		
14.						X 3-Prevalence Index	is ≤3.0¹ aptations¹ (Provide supporting	
15. 16.							on a separate sheet)	
							ohytic Vegetation <sup>1</sup> (Explain)	
10								
						<sup>1</sup> Indicators of hydric soil and	·	
20.			4000/	T-1-1 0		be present, unless disturbed	or problematic.	
			100%	= Total Cover				
Woody Vine Stratu	m (Plot size: 30' radius	)				Hydrophytic		
1		<b>—</b> ′				Vegetation		
2.						Present? Yes	X No	
			0%	= Total Cover				
Remarks: (Include	photo numbers here or on a s	eparate sheet \				l		
, include	F 1010 01 011 0 0							
US Army Corps o	ī Engineers					<del></del>	Midwest Region version 2.0	

SOIL Sampling Point: SP-2

Depth inches)	Matrix			13	Redox Feature					
	Color (moist)	%	Color (m	noist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-20	10YR 4/2	100		/				SiCL		
	101111/1/2									
					<del>-</del>					
					_					
		- —— —								
		- —— —								
		- —— —								
	ncentration, D=Depleti	on, RM=Red	uced Matrix,	CS=Cove	ered or Coated	d Sand Grains.			Lining, M=Matrix.	
dric Soil In			(	Sandy Cla	eyed Matrix (S	4)	indic		<b>blematic Hydric Soils<sup>3</sup>:</b> Prairie Redox (A16)	
Histosol	ipedon (A2)			Sandy Red	-	+)			langanese Masses (F12)	
Black His				-	natrix (S6)				furface (S7)	
	n Sulfide (A4)				ucky Mineral (F	<del>-</del> 1)			hallow Dark Surface (TF12)	
	Layers (A5)			•	eyed Matrix (F	-			(Explain in Remarks)	
2 cm Mu				•	Matrix (F3)	<b>2</b> )			(Explain in Nomano)	
	l Below Dark Surface (	A11)		-	rk Surface (F6	<i>3</i> )				
	irk Surface (A12)	, , , ,			Dark Surface (	•		<sup>3</sup> Indicators of	of hydrophytic vegetation and	
	ucky Mineral (S1)				pressions (F8)				nydrology must be present,	
	cky Peat or Peat (S3)								disturbed or problematic.	
estrictive La	yer (if observed):								<u> </u>	
Type:	yer (ii observeu).									
	. `		•				Hydric	Soil Present	Yes No	v
Depth (incommarks:	cnes):		<u>-</u>				.,,			X
emarks:			<u>-</u>				.,,			
emarks:							.,,			
YDROLO	o <b>G</b> Y	is required: c	heck all that	apply)			.,,		dary Indicators (minimum of two req	
marks:  YDROLO  etland Hydr  rimary Indica	OGY ology Indicators:	is required: c			nined Leaves (	B9)		Secon	dary Indicators (minimum of two req Surface Soil Cracks (B6)	
YDROLO etland Hydr rimary Indica Surface N	OGY ology Indicators: ators (minimum of one	is required: c	\	Water-Sta	iined Leaves ( auna (B13)	B9)		Secon		
YDROLO etland Hydr rimary Indica Surface N	ology Indicators: stors (minimum of one Water (A1) ter Table (A2)	is required: c		Water-Sta Aquatic Fa	,	,		Secon	Surface Soil Cracks (B6)	
YDROLO etland Hydri rimary Indica Surface \( \) High Wa	ology Indicators: utors (minimum of one Water (A1) ter Table (A2) on (A3)	is required: c	`	Water-Sta Aquatic Fa True Aqua	auna (B13)	4)		Secon	Surface Soil Cracks (B6) Drainage Patterns (B10)	
YDROLO etland Hydrimary Indica Surface V High Wa Saturatio Water Mi	ology Indicators: utors (minimum of one Water (A1) ter Table (A2) on (A3)	is required: c		Water-Sta Aquatic Fa True Aqua Hydrogen	auna (B13) atic Plants (B1	4) (C1)		Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)	uire
YDROLO etland Hydro rimary Indica Surface V High Wa Saturatio Water Mi Sedimen	ology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1)	is required: c	\ 	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	auna (B13) atic Plants (B1 Sulfide Odor (	4) (C1) on Living Root		Secon	Surface Soil Cracks (B6) Orainage Patterns (B10) Ory-Season Water Table (C2) Crayfish Burrows (C8)	uire
YDROLO etland Hydrorimary Indica Surface V High War Saturation Water Mi Sedimen Drift Dep	ology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2)	is required: c		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres	4) (C1) on Living Root on (C4)	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery	uire
YDROLO  etland Hydrorimary Indica Surface North Water Modern Mode	ology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3)	is required: c		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Ir	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Drayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1)	uire
YDROLO etland Hydre rimary Indica Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep	ology Indicators: stors (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) sosits (B3) tt or Crust (B4)			Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	auna (B13)  atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced In on Reduction in	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
Marks:  POROLO  Etland Hydre  imary Indica  Surface V  High Wa  Saturatio  Water Mi  Sedimen  Drift Dep  Algal Ma  Iron Depe	ology Indicators:  Interest (A1) Interest (A2) Interest (A3) Interest (B4) Interest (B	agery (B7)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced In on Reduction in	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
YDROLO etland Hydrorimary Indica Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Depo Inundatic Sparsely	ology Indicators: ators (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima Vegetated Concave S	agery (B7)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V	auna (B13) attic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Into Reduction into Surface (C7) Well Data (D9	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
YDROLO etland Hydrorimary Indica Surface North High War Saturation Water Modern	ology Indicators:  Intors (minimum of one Water (A1)  Iter Table (A2)  Into (A3)  Into Deposits (B2)  Into Deposits (B3)  Into Crust (B4)  Into Crust (B4)  Into Visible on Aerial Image  Vegetated Concave Sections:	agery (B7) Surface (B8)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or V	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Ir on Reduction in a Surface (C7) Well Data (D9 plain in Remar	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
YDROLO etland Hydrorimary Indica Surface N High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Depo Inundatic Sparsely eld Observa	ology Indicators:  Inters (minimum of one Water (A1)  Iter Table (A2)  Inter (A3)  Inters (B1)  Inters (B2)  Inters (B2)  Inters (B3)  Inters (B4)  Inters (B4)  Inters (B4)  Inters (B5)  Inters (B5)  Inters (B4)	agery (B7) Surface (B8)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or N Other (Exp	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Ir on Reduction in s Surface (C7) Well Data (D9 plain in Remar	4) (C1) on Living Root on (C4) n Tilled Soils (	es (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
YDROLO etland Hydra rimary Indica Surface V High Wa Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Depu Inundatic Sparsely eld Observa urface Water Table F	ology Indicators:  Inters (minimum of one Water (A1)  Iter Table (A2)  Inter (A3)  Inters (B1)  Inters (B2)  Inters (B2)  Inters (B2)  Inters (B3)  Inters (B4)	agery (B7) Surface (B8) Yes No Yes No	X De	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or N Other (Exp	auna (B13) attic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Irr on Reduction in Surface (C7) Well Data (D9 plain in Remar es):	4) (C1) on Living Root on (C4) n Tilled Soils (	rs (C3)	Secon	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2)	uire
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YDROLO  /etland Hydromary Indica Surface Note High War Saturation Water Missedimen Drift Deport Inundation Sparsely ield Observation Water Table Footbattration Prescribe Recommender  Remarks:	ology Indicators:  stors (minimum of one Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial Ima vegetated Concave S on Vegetated Concave S	agery (B7) Surface (B8)  Yes No Yes No Yes No uge, monitori	X De X De ing well, aeria	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck Gauge or I Other (Exp epth (inche epth (inche epth (inche ial photos,	auna (B13) atic Plants (B1 Sulfide Odor ( Rhizospheres of Reduced Ir on Reduction in c Surface (C7) Well Data (D9 plain in Remar es): es): previous insp	4) (C1) on Living Root on (C4) n Tilled Soils (  ) ks)  Wetland	rs (C3) C6) I Hydrolog	Secon  S  X  X  Y  S  S  S  S  S  S  S  S  S  S  S  S	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Drayfish Burrows (C8) Saturation Visible on Aerial Imagery Stunted or Stressed Plants (D1) Geomorphic Position (D2) FAC-Neutral Test (D5)	uire

US Army Corps of Engineers Midwest Region version 2.0

### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	Project/Site: Des 1600828 - S.R. 26 over Salamonie River				City/County: Portland / Jay County Sampling Date: 8/28/2019				
Applicant/Owner:	int/Owner: INDOT					Sampling Point: SP-3			
Investigator(s):	Cory Shumate and Zachary Root		Sect	tion, Township	o, Range: Section 21, Townshi	p 23 N, Range 14 E			
Landform (hillslope	, terrace, etc.): Terrace				elief (concave, convex, none):	None			
Slope (%):	0% Lat: 40.43264		Long:		-84.9637	Datum: NAD83			
Soil Map Unit Name					NWI classi				
Are climatic / hydro	logic conditions on the site typical for this time	-	_	X No	(If no, explain in Remarks	s.)			
Are Vegetation	No , Soil No , or Hydrology N				rmal Circumstances" present?				
Are Vegetation	No , Soil No , or Hydrology N			,	ed, explain any answers in Rer	,			
SUMMARY OF	FINDINGS Attach site map show	ving sampling	g point loca	tions, trar	nsects, important featur	res, etc.			
Hydrophytic Vegeta		No		Sampled Are					
Hydric Soil Present Wetland Hydrology		No X	within	a Wetland?	Yes	No <u>x</u>			
	103 X	No							
Remarks: Upland Sampling P	oint 2. Project study area received over an inc	ch of rain betweer	n 8/26/2019 and	d 8/27/2019.					
VEGETATION	Use scientific names of plants.	Alexander	Danisant	la d'antan	Ī				
Tree Stratum (Plot	size: 30' radius )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet				
1	<u>00 144140</u> ,	70 00001	Ороско.	Ciaiao	Dominance real worksheet	•			
_					Number of Dominant Species	3			
3					That Are OBL, FACW, or FAC	C:(A)			
4					Total Number of Deminerat				
o		0%	= Total Cover		Total Number of Dominant Species Across All Strata:	1 (B)			
			. otal ooro.		openier release / iii oli alia.	(2)			
Sapling/Shrub Stra	tum (Plot size: 15' radius )				Percent of Dominant Species	;			
					That Are OBL, FACW, or FAC	C: <u>100%</u> (A/B)			
2									
4					Prevalence Index workshee	t:			
5.									
		0%	= Total Cover		Total % Cover of:	Multiply by:			
Herb Stratum (Plot			.,	=	OBL species	x1 =			
Phalaris arundi     2.	rnacea	100%	Yes	FACW	FACW species 100% FAC species	x2 = 2 x3 =			
3.					FACU species	x4 =			
4.					UPL species	x5 =			
5.					Column Totals: 1.00	(A) 2 (B)			
6.					Dravelance Index	D/A 0.00			
7. 8.					Prevalence Index =	B/A = 2.00			
9.									
10.					Hydrophytic Vegetation Ind	licators:			
11.									
12.					X 1-Rapid Test for Hyd X 2-Dominance Test is	· · · -			
13. 14.					X 3-Prevalence Index				
15.					4-Morphological Ada	ptations <sup>1</sup> (Provide supporting			
16.						on a separate sheet)			
17					Problematic Hydrop	hytic Vegetation <sup>1</sup> (Explain)			
40					<sup>1</sup> Indicators of hydric soil and v	wetland hydrology must			
20.					be present, unless disturbed	·			
		100%	= Total Cover						
Woody Vine Stratu	m (Plot size: 30' radius )				Hydrophytic				
1					Vegetation Present? Yes	X No			
		0%	= Total Cover		165	<u> </u>			
Remarks: (Include	photo numbers here or on a separate sheet.)	<u> </u>							
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SOIL Sampling Point: SP-3

Depth	ription: (Describe to the	depth needed	to document the i	ndicator or c	onfirm the a	bsence of	indicators.)	
Debin	Matrix		Red	dox Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-18	10YR 4/2	100					SiCL	
18-20	10YR 3/4	45	10YR 6/4	10	С	М	SiCL	Mixed Matrix; Distinct redox concentrations
	10YR 4/1	45						
				<del></del>				
<sup>1</sup> Type: C=C		RM-Reduced	Matrix CS-Covere	ad or Coated	Sand Grains	<sup>2</sup> l ocati	on: DI –Pore	Lining, M=Matrix.
Hydric Soil I		, INVIENCE	watrix, 00=00vere	ed of Coaled	Darid Crairis			bblematic Hydric Soils <sup>3</sup> :
Histoso			Sandy Gleve	ed Matrix (S4)		maio		t Prairie Redox (A16)
	Epipedon (A2)		Sandy Redo					Manganese Masses (F12)
	Histic (A3)		Stripped Ma					Surface (S7)
	en Sulfide (A4)			ky Mineral (F1	)			Shallow Dark Surface (TF12)
	ed Layers (A5)			ed Matrix (F2	-			(Explain in Remarks)
	luck (A10)		Depleted Ma		•			(Explain in Comains)
	ed Below Dark Surface (A1	1)		Surface (F6)				
	Dark Surface (A12)	.,		ark Surface (F	7)		3Indicators	of hydrophytic vegetation and
	Mucky Mineral (S1)			essions (F8)	.,			hydrology must be present,
	lucky Peat or Peat (S3)							s disturbed or problematic.
	ayer (if observed):							·
Type:	.ayer (ii observeu).							
Depth (ii	nches).					Hydric	Soil Present	? Yes No X
Deptii (ii	1101165).					Tiyunc .	Jon Fresent	i lesNo
HYDROL								
-	drology Indicators:							
Primary indic			all that apply				Canan	
Surface Water (A1)				ad Lagyes (P	0)			ndary Indicators (minimum of two required)
	, ,	required: check	Water-Stain	ed Leaves (B	9)			Surface Soil Cracks (B6)
High W	e Water (A1) /ater Table (A2)	required: check	Water-Stain	na (B13)	•		X	Surface Soil Cracks (B6) Drainage Patterns (B10)
High W	e Water (A1) /ater Table (A2) rion (A3)	required: check	Water-Stain Aquatic Fau True Aquatic	na (B13) c Plants (B14)	)		X	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2)
High W Saturati Water N	e Water (A1) /ater Table (A2) ion (A3) Marks (B1)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen Si	na (B13) c Plants (B14) ulfide Odor (C	) ;1)	re (C3)	<u> </u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8)
High W. Saturati Water N Sedime	e Water (A1) /ater Table (A2) /ion (A3) Marks (B1) ent Deposits (B2)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen Sı Oxidized Rh	na (B13) c Plants (B14) ulfide Odor (C iizospheres oi	) :1) n Living Roof	is (C3)	<u>X</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
High W. Saturati Water N Sedime Drift De	e Water (A1) l'ater Table (A2) lition (A3) Marks (B1) ent Deposits (B2) eposits (B3)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rh Presence of	na (B13) c Plants (B14) ulfide Odor (C iizospheres oi Reduced Iroi	) 11) n Living Room n (C4)		<u>x</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
High W. Saturati Water N Sedime Drift De Algal M	e Water (A1)  later Table (A2)  cion (A3)  Marks (B1)  ent Deposits (B2)  eposits (B3)  lat or Crust (B4)	required: check	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron	na (B13) c Plants (B14) ulfide Odor (C iizospheres of Reduced Iron Reduction in	) 11) n Living Room n (C4)		<u>x</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel	e Water (A1)  l'ater Table (A2)  lition (A3)  Marks (B1)  ent Deposits (B2)  eposits (B3)  lat or Crust (B4)  eposits (B5)  tion Visible on Aerial Image  ly Vegetated Concave Surf	ery (B7) face (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Explain	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark	on Living Room n (C4) Tilled Soils (		<u>x</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
High W Saturati Water M Sedime Drift De Algal M Iron De Inundat Sparsel Field Observ Surface Wate	e Water (A1)  later Table (A2)  lition (A3)  Marks (B1)  ent Deposits (B2)  eposits (B3)  lat or Crust (B4)  eposits (B5)  tion Visible on Aerial Image  ly Vegetated Concave Surf  vations:  er Present?  Yes	ery (B7) face (B8)	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rh Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C izospheres or Reduced Iror Reduction in Surface (C7) fell Data (D9) ain in Remark	on Living Room n (C4) Tilled Soils (		<u>x</u>	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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### WETLAND DETERMINATION DATA FORM -- Midwest Region

Project/Site:	City/County: Portland / Jay County Sampling Date: 8/28/2019					
Applicant/Owner:	INDOT	State: IN Sampling Point: SP-4				
Investigator(s):	Cory Shumate and Zachary Root		Sect	ion, Township	o, Range: Section 21, Townsl	nip 23 N, Range 14 E
Landform (hillslope	, terrace, etc.): Toe of hillslope				elief (concave, convex, none)	Concave
Slope (%):	5% Lat: 40.4326	68	Long:		-84.96255	Datum: NAD83
Soil Map Unit Name		` , , , ,			NWI class	
-	logic conditions on the site typical for this tir	=	_		(If no, explain in Remar	
Are Vegetation	No , Soil No , or Hydrology				rmal Circumstances" present	
Are Vegetation	No , Soil No , or Hydrology				ed, explain any answers in Re	
SUMMARY OF	FINDINGS Attach site map sh		g point loca	tions, trar	nsects, important featu	ires, etc.
Hydrophytic Vegeta				Sampled Are		
Hydric Soil Present Wetland Hydrology			within	a Wetland?	Yes	No <u>x</u>
Remarks:	100 X					
	oint 4. Project study area received over an	inch of rain betweer	n 8/26/2019 and	d 8/27/2019.		
VEGETATION	Use scientific names of plants					
Total Observations (Dist	ol III	Absolute	Dominant	Indicator		
Tree Stratum (Plot 1.	size: 30' radius )	% Cover	Species?	Status	Dominance Test workshe	≆t:
					Number of Dominant Specie	es
3.					That Are OBL, FACW, or FA	AC: 1 (A)
4.						
5			= Total Cover		Total Number of Dominant	4 (D)
		0%	= Total Cover		Species Across All Strata:	1 (B)
Sapling/Shrub Stra	tum (Plot size: 15' radius )				Percent of Dominant Specie	es
1					That Are OBL, FACW, or FA	AC: 100% (A/B)
2.						
3					Barratan a ta dan madaka	-4
5.					Prevalence Index workshe	et:
•		0%	= Total Cover		Total % Cover of:	Multiply by:
Herb Stratum (Plot	t size: <u>5' radius</u> )	' <u></u>			OBL species	x1 =
1. Phalaris arundi		90%	Yes	FACW	FACW species 90%	
2. Convolvulus ar		20%	No No	UPL	FAC species 20%	x3 = x4 =0.8
Convolvulus ar     4.	verisis	20%	INO	UPL	FACU species 20% UPL species 20%	
5.					Column Totals: 1.30	
6.						<u> </u>
7					Prevalence Index =	= B/A = 2.77
8. 9.						
10.					Hydrophytic Vegetation In	dicators:
11.						
12.					X 1-Rapid Test for Hy	
13.					X 2-Dominance Test	
14 15.					X 3-Prevalence Index	laptations <sup>1</sup> (Provide supporting
40						r on a separate sheet)
						phytic Vegetation <sup>1</sup> (Explain)
10					<u> </u>	
					<sup>1</sup> Indicators of hydric soil and	·
20		130%	= Total Cover		be present, unless disturbed	or problematic.
		13076	- Total Cover			
Woody Vine Stratu	m (Plot size: 30' radius )				Hydrophytic	
1					Vegetation	
2			T-1.10		Present? Yes	s_X_No
		0%	= Total Cover			
Remarks: (Include	photo numbers here or on a separate shee	et.)			l .	
, , , , , ,						
L,,,,,,,,,,	* E walls a sea					tilduras francis
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SOIL Sampling Point: SP-4

Profile Desc	ription: (Describe to the	e depth neede	ed to document the in	ndicator or c	onfirm the a	bsence of	indicators.)				
Depth	Matrix		Red	ox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks		
0-11	10YR 3/2	100					SiCL				
11-20	10YR 3/2	50					SiCL	Mixe	d Matrix		
	10YR 4/2	50						Mixe	d Matrix		
<sup>1</sup> Type: C=C	concentration, D=Depletion	on, RM=Reduce	ed Matrix, CS=Covere	d or Coated	Sand Grains.	<sup>2</sup> Location	on: PL=Pore	Lining, M=Matrix.			
Hydric Soil I	ndicators:					Indic	ators for Pro	blematic Hydric So	ls³:		
Histoso	ol (A1)		Sandy Gleye	d Matrix (S4)	)		Coast	Prairie Redox (A16)			
Histic E	pipedon (A2)		Sandy Redox	k (S5)			Iron-M	langanese Masses (	<del>-</del> 12)		
	listic (A3)		Stripped Mat					urface (S7)			
	en Sulfide (A4)		Loamy Muck	-	-			hallow Dark Surface			
	ed Layers (A5)		Loamy Gleye		)		Other	(Explain in Remarks	)		
	luck (A10)		Depleted Ma								
	ed Below Dark Surface (	A11)	Redox Dark		\		3				
	Oark Surface (A12)		Depleted Date	•	7)			f hydrophytic vegeta			
	Mucky Mineral (S1) lucky Peat or Peat (S3)		Redox Depre	essions (F8)				nydrology must be pr disturbed or problen			
							uilless	disturbed of problem	iatic.		
	ayer (if observed):										
Type: _ Depth (i	nahaa).					Liverin 1	Soil Present?	. Vaa	No	V	
Deptii (i	1101165).	_				пушть	Jon Fresent	Yes	No	<u> </u>	
HYDROL	OGY										
Wetland Hyd	Irology Indicators:										
Primary India	cators (minimum of one i	s required: che	ck all that apply)					dary Indicators (mini		equired)	
	e Water (A1)		Water-Staine	-	9)			Surface Soil Cracks (			
	ater Table (A2)		Aquatic Faur				Drainage Patterns (B10)				
	ion (A3)		True Aquatic				Dry-Season Water Table (C2)				
	Marks (B1)		Hydrogen Su	•	-	- (00)		Crayfish Burrows (C8	<b>,</b>	(00)	
	ent Deposits (B2) eposits (B3)		Oxidized Rhi	-	-	s (C3)		Saturation Visible on Stunted or Stressed I	-	ery (C9)	
	lat or Crust (B4)		Recent Iron F		` ,	<u> </u>		Geomorphic Position	` '		
	posits (B5)		Thin Muck S		Tilled Colls (	50)		FAC-Neutral Test (D			
	tion Visible on Aerial Ima	agery (B7)	Gauge or We				<u> </u>	7.0 11001101 1001 (2)	'7		
	ly Vegetated Concave S	• • • •	Other (Explai		s)						
Field Observ	vations:										
Surface Wat		res No 2	C Depth (inches)								
Water Table		es No									
Saturation P		es No			Wetland	Hydrolog	y Present?	Yes	x No		
(includes car						,	,				
	corded Data (stream ga	uge, monitoring	well, aerial photos, pr	evious inspe	ctions), if ava	ilable:					
Remarks:	at mot the criteria for acc	marabia nacitia	n (D2) due te ite leest	ion at the tac	of a hillalan	a usithia a r	aadaida ditab				
Sampling poil	nt met the criteria for geo	morphic positio	on (D2) due to its locat	ion at the toe	oi a miisiopi	e williin a r	oauside ditori	•			
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### Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

#### **BACKGROUND INFORMATION**

A. REPORT COMPLETION DATE FOR PJD: April 2, 2020

### B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

Cory Shumate
Metric Environmental, LLC
6971 Hillsdale Court
Indianapolis, IN 46250
(317) 350-4896
corys@metricenv.com

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

### D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The proposed project (Des. No. 1600828) includes the replacement of the existing bridge (Bridge No. 026-38-03430 A/NIBI No. 007040), which carries S.R. 26 over Salamonie River in Wayne Township, Jay County, Indiana. The existing structure is 150 ft. long span with 28 ft clear roadway width curb-to-curb. The proposed improvements include the installation of a two-lane bridge that is 3-span with 30-ft. clear roadway width, subject to change upon further project design.

# (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: IN County/parish/borough: Jay County City: Portland

Center coordinates of site (lat/long in degree decimal format):

Lat.: 40.43258° Long.: -84.96348°

Universal Transverse Mercator: 16 S 672740.68 E 4477762.64 N

Name of nearest waterbody: Salamonie River

E.	REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY)
	Office (Desk) Determination. Date:
	Field Determination. Date(s):

# TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)
UNT 1	40.43258	-84.96353	200 LFT	Non-wetland waters	Section 404
Open Water 1	40.43281	-84.96376	0.037 acre	Non-wetland Waters	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aguatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

### SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources

below where indicated for all checked items: Maps, plans, plots or plat submitted by or on behalf of the PJD requestor: ■ Map: Dated 8/5/2019, 8/26/2019, and 9/3/2019 Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale:\_\_\_\_ Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. ■ USGS 8 and 12 digit HUC maps. ■ U.S. Geological Survey map(s). Cite scale & quad name: Portland, IN 7.5 min, 1996 Natural Resources Conservation Service Soil Survey. Citation: SSURGO Jay County National wetlands inventory map(s). Cite name: <a href="http://www.fws.gov/wetlands/">http://www.fws.gov/wetlands/</a> State/local wetland inventory map(s):\_\_\_\_\_ FEMA/FIRM maps: ; Effective—— 100-year Floodplain Elevation is:\_\_\_\_\_\_\_.(National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date): Indiana Aerial Photograph, 2017 Other (Name & Date): Site Photographs, 8/28/2019 Previous determination(s). File no. and date of response letter:\_\_\_\_\_\_\_ Other information (please specify): IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations. 4/2/2020 Signature and date of Signature and date of Regulatory staff member person requesting PJD (REQUIRED, unless obtaining completing PJD

the signature is impracticable)1

<sup>&</sup>lt;sup>1</sup> Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

## Appendix G Public Involvement (This appendix will be updated after the public involvement process is complete)

### INDIANA DEPARTMENT OF TRANSPORTATION



Driving Indiana's Economic Growth

Land & Aerial Survey Office Division of Materials & Tests Building 120 South Shortridge Road Indianapolis, Indiana 46219-6705

PHONE: (317) 610-7251 FAX: (317) 356-9351

Eric J. Holcomb, Governor Joe McGuinness, Commissioner

December 4, 2017



**EXAMPLE** 

### NOTICE OF SURVEY

### Dear Property Owner:

USI Consultants, under contract with The Indiana Department of Transportation (INDOT), will perform a survey for the proposed Bridge Study project on SR26 Bridge over Salamonie River, Des No. 1600828, in Jay County, Indiana. A portion of this survey work may be performed on your property in order to provide design engineers information for project design. The survey work will include mapping the location of features such as trees, buildings, fences, drives, ground elevations, etc. The survey is needed for the proper planning and design of this highway project.

At this stage we generally do not know what effect, if any, our project may eventually have on your property. If we determine later that your property is involved, we will contact you with additional information.

Indiana Code 8-23-7-26 allows USI Consultants, as the authorized employees of INDOT, *Right of Entry* to the project site (including private property) upon proper notification. A copy of a Notice of Survey discussion sheet, as found on INDOT's website (<a href="http://www.in.gov/indot/2888.htm">http://www.in.gov/indot/2888.htm</a>), is attached to this letter. Pursuant to Indiana Code 8-23-7-27, this letter serves as written notification that we will be performing the above noted survey in the vicinity of your property after December 4, 2017.

USI Consultants employees will show you their identification, if you are available, before coming onto your property.

If you own but are not the tenant of this property (i.e. rental, sharecrop), please inform us so that we may also contact the actual tenant of the property prior to commencement of our work. If you have any questions or concerns regarding our proposed survey work or schedule, please contact the USI Consultants Survey Manager. This contact information is as follows:

Mark A. Schepers 8415 E. 56<sup>th</sup> St. Indianapolis, IN 46216 317-544-4996

### INDIANA DEPARTMENT OF TRANSPORTATION



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PHONE: (317) 610-7251 FAX: (317) 356-9351

Eric J. Holcomb, Governor Joe McGuinness, Commissioner

Under Indiana Code 8-23-7-28, you have a right to compensation for any damage that occurs to your land or water as a result of the entry or work performed during the entry. To obtain such compensation, you should contact the Central Office District Real Estate Manager; contact information is below. The District Real Estate Manager can provide you with a form to request compensation for damages. Once you fill out this form, you can return it to the District Real Estate Manager for consideration. If you are not satisfied with the compensation that INDOT determines is owed to you, Indiana Code 8-23-7-28 provides the following:

The amount of damages shall be assessed by the county agricultural extension educator of the county in which the land or water is located and two (2) disinterested residents of the county, one (1) appointed by the aggrieved party and one (1) appointed by the department. A written report of the assessment of damages shall be mailed to the aggrieved party and the department by first class United States mail. If either the department or the aggrieved party is not satisfied with the assessment of damages, either or both may file a petition, not later than fifteen (15) days after receiving the report, in the circuit or superior court of the county in which the land or water is located.

If you have questions regarding the rights and procedures outlined in this letter, please contact the Greenfield Real Estate Manager. This contact information is as follows:

Josh Betz 32 S. Broadway St. Greenfield, IN 46140 317-467-3402

Thank you in advance for your cooperation in this matter.

Sincerely,

Mark A. Schepers

Mand A. Sch

Survey Operations Manager